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JUNE 30 1956

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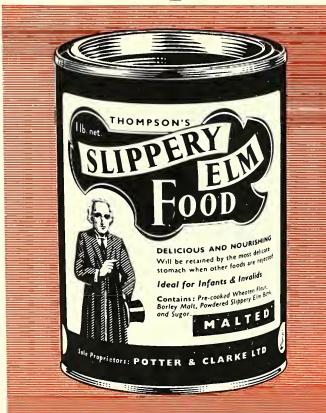
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A.G.S. & Petronic, Ltd	Boots Pure Drug Co., Ltd 42
Abbott Laboratories, Ltd 55	Bowater-Scott Corporation, Ltd
Acme Vacuum Flask Co., Ltd., The	Box, W. H
Acton Pill & Tablet Co., Ltd., The	British Drug Houses, Ltd., The 113
Addressing Co., Ltd., The	British Dyewood Co., Ltd., The
Agfa, Ltd 85	British Felsol Co., Ltd
Albro Fillers & Engineering Co., Ltd	British Products San-Mex Co., Ltd., The 109
Allen & Hanburys, Ltd Cover iii	British Railways 142
Allen Chlorophyll Co., Ltd., The	Broadbent, Thomas, & Sons, Ltd
Allen, Stafford, & Sons, Ltd	Brome & Schimmer
Antoine Chiris, Ltd	Brook, Parker & Co., Ltd 34
Armour Laboratories, The 4	Brown & Polson, Ltd 40
Arvin Electric, Ltd	Brumleu, Wm. Chas., Ltd
Ashwood Timber Industries, Ltd	Buckley Bowker Tablet Co., Ltd 122
Askit, Ltd 60	Burrough, James, Ltd 4
Associated Newspapers, Ltd	Burroughs Wellcome & Co 112
Autopack, Ltd 116	Burson Elastic Stockings
	Bush, W. J., & Co., Ltd
- H	Byard Manufacturing Co., Ltd 58
Bailey, Robert, & Son, Ltd 114	
Baker Metal Stopper Co., Ltd	
Barker, Robert, & Son, Ltd 116	Calmic, Ltd
Bayer Products, Ltd	Cannon Rubber Manufacturers Co., Ltd., The 46
Beatson Clark & Co., Ltd	Caplin, J. L., Ltd
Beecham Pharmaceuticals, Ltd	Carnegies of Welwyn, Ltd
Belfast Telegraph'	Carr's Cereal Products, Ltd
Bell, John, Hills & Lucas, Ltd	Castle Huskisson, Ltd 114
Benger Laboratories, Ltd 57	Chemapol 121
Bengue & Co., Ltd	Chemist and Druggist Pharmaceutical Formulas,
Benton, T. L., & Co., Ltd	Vol. II 160
Berdoe & Fish	Chemist and Druggist Poisons Guide
Biddle, Sawyer & Co., Ltd	Chemists' Mutual Insurance Co., Ltd., The 34
Biometica, Ltd	
Blackie, Robert, Ltd 125	(continued on page 6)



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INDEX (cont.)	Foyle, W. & G., Ltd
(**************************************	Franco-British Glass Co., Ltd., The
Christy, Thos., & Co., Ltd 6	French of London
Church & Co. (Fittings), Ltd	Frischmann, H
Ciba Laboratories, Ltd	Fryer & Co. (Nelson), Ltd
Cole, E. K., Ltd	Furman, B. N. (Productions), Ltd
Compressed Paper Packing, Ltd	
County Laboratories, Ltd., The	
Cox, Arthur H., & Co., Ltd	Gamic Genetic Laboratories
Cox, James, & Co	Geigy Pharmaceutical Co., Ltd
Cuticura Preparations	Gillette Industries, Ltd., The
Cuxson Gerrard & Co., Ltd	Glaxo Laboratories, Ltd In erleaved Edit., 62
	Gledhill, G. H., & Sons, Ltd
	Glover, Thos., & Son, Ltd.
D.R. Products	Golden, Ltd
'Daily Mirror, The'	Gowllands, Ltd
Daniel, Richard, & Son, Ltd	Graesser Salicylates, Ltd
Demuth, R., Ltd	Graesser-Thomas, H. W., Ltd 120
Domestos, Ltd	Greeff, R. W., & Co., Ltd.
Durham-Duplex Razor Co., Ltd	Guest, Thos., & Co., Ltd
Dyanese, Ltd 164	
	H.D.G. (Pharmaceuticals), Ltd
Eade's Pills, Ltd	Halewood Chemicals, Ltd. 12
Edme, Ltd	Hamburger, M., & Sons
'Elasto'96	
English Grains Co., Ltd., The	Hanovia
Evanol, Ltd	Hawker & Co.
Evan Williams Co., Ltd	Haycock Press, Ltd., The 100
Evans, Gadd & Co., Ltd	Heath Brothers & Sons, Ltd.
Evans Medical Supplies, Ltd	Hedges (Chemists), Ltd. 12
	Hinders, Ltd
Felling Zinc Oxide Co	Holborn Supplies, Ltd. Classified Section
	Holloway, E. R., Ltd
	Hooper, B., & Co., Ltd.
Ferryman, Herbert, Ltd. 126 Fibrenyle, Ltd. 95	nooper, b., & Co., Liu.
	(continued on page 8
Flach, Joseph, & Sons, Ltd	(continued on page of





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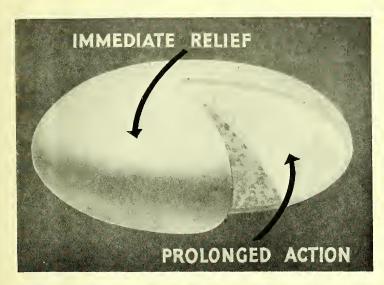
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INDEX (cont.)	Perihel, Ltd. 43
House of Haywood, The	Pfizer, Ltd.         21           Pierson, Morrell & Co., Ltd.         119
Hughes Brushes, Ltd	Pinaud, Ltd 161
Ilford, Ltd	Potter & Clarke, Ltd. Cover ii Premo Rubber Co., Ltd. 44
'Illustrated'	Priory Laboratories, Ltd
Imperial Chemical Industries, Ltd. 79 Imperial Chemical (Pharmaceuticals), Ltd. 79	Production Chemicals (Rochdale), Ltd
Interleaved Edit., 626	Proprietary Articles Trade Association, The 26
International Bottle Co., Ltd., The	Rankin Bros. & Sons
Inverni Della Beffa, S.p.A	Ransom, William, & Son, Ltd 84
Irish Tourist Bureau	Rapidol, Ltd
	Rayner & Co., Ltd. 54 Regna Cash Register Co. 76
Jarrett, Rainsford & Laughton, Ltd	Rendell, W. J., Ltd
Jarvie, H., & Co., Ltd.       158         Jobling, James A., & Co., Ltd.       140	Riddell Products, Ltd. 127 Riley, John, & Sons, Ltd. 125
Johnsons of Hendon, Ltd	Robinson & Sons, Ltd
W. D. Tell	Robinson, J., & Son (Bradford), Ltd. 116 Ronaldson, John, & Co., Ltd. 94
Kay Bros., Ltd.       44         Kearsley, C. & G., Ltd.       118	Ronaldson, John, & Co., Ltd. 94 Rose, J. L., Ltd. 48
Kelly, John (London), Ltd. 97	Rose, L., & Co., Ltd
Kemball, Bishop & Co., Ltd	Ross Ensign, Ltd 89
Kemsales, Ltd. 36 Kennett Price Markers 116	Solter Can & Co. Ltd.
Kerfoot, Thomas, & Co., Ltd	Salter, Geo., & Co., Ltd. 141 Samuelson, P., & Co. 148
Kirby, H. & T., & Co., Ltd. 19 Knox Laboratories, Ltd. 154	Sangers, Ltd 31
Know Laboratories, Ltd	Scholl Manufacturing Co., Ltd., The 10 Schutze, F., & Co., Ltd. 122
Lake & Cruickshank, Ltd 81	Searle, A., & Co
Laporte Chemicals, Ltd	Shadeine Co., Ltd., The
Lax & Shaw, Ltd	Shaw, Robert, & Co., Ltd.       28         Silten, Ltd.       9
Leigh & Sons (Metal Works), Ltd	Simpson's Manufacturing Pty., Ltd 142
Lilly, Eli, & Co., Ltd	Smith & Hill (Chemists), Ltd.       38         Smith, T. & H., Ltd.       17
Lofthouse & Saltmer, Ltd 60	Smith, T. J., & Nephew, Ltd
Luxan, Ltd 156	Societe Azioni per Industrie Agricole Meridionali
MacAndrews & Forbes, Ltd	Societe des Lunetiers
Macdonald & Son, Ltd	Southon Laboratories, Ltd 4
Macwill & Co., Ltd	Stewart, Goodall & Dunlop, Ltd. 38 Sumner, R., & Co., Ltd. 96
Manesty Machines, Ltd. 64 Marshall & Jenkinson, Ltd. 154	Surgical Hosiery Co., Ltd
Martindale, William (Wholesale), Ltd 148	Suter, A. F., & Co., Ltd. 44 Suttley & Silverlock 144
Matthews, Stephen, & Co., Ltd. 124 Mawdsley, D., & Co., Ltd. 162	Suttley & Silverioek
Mawson & Proctor Pharmaceuticals, Ltd 149	Taylowe, Ltd
Maylen Mfg. Co., Ltd	Thompson & Capper Wholesale, Ltd
'Medicinal Norit'	Thornton & Ross, Ltd. 104 Townsend, James, & Sons, Ltd. 88
Meggeson & Co., Ltd	Tye, John, & Son, Ltd. 144
Menley & James, Ltd. 59 Merck Sharp & Dohme, Ltd. 166	
Metal Box Co., Ltd., The 93	United Glass Bottle Manufacturers, Ltd. 103 Universal Metal Products, Ltd. 63
Middleton & Co., Ltd	Offiversal Metal Froducts, Etd
Mining & Chemical Products, Ltd. 83 Mitchell, L. A., Ltd. 135	V.B. & G. Products, Ltd
Morrell, John, & Co., Ltd	V.N.K. United Netherlands Herbco-Op 36
Mysore, Trade Agent for	Vigal Products, Ltd. 150 Vines Biocrin, Ltd. 86
National Glass Works (York), Ltd	······································
'Ncrvone' 108	Wain, Clement, Ltd 150
Newton Chambers & Co., Ltd. 157 Niblett, C. P. 150	Warner, William R., & Co., Ltd. 7 Washington Chemical Co., Ltd., The 47
North, A. J., & Co., Ltd	Webster, Isaac, & Sons, Ltd 132
	West Pharmaceutical Company 20 Wilcox Jozcau & Co., Ltd. 24
Olley, C., & Sons, Ltd. 118 Or-Lem, Ltd. 151	Wilcox, Jozcau & Co., Ltd. 24 Wilkinson, S. W., & Co., Ltd. 143
Orridge & Co	Wilson & Mansfield, Ltd 56
Ortho Pharmaceutical, Ltd70, 71	Woodward, G. O., & Co., Ltd. 32 Woolley, James, Sons & Co., Ltd. 105
Paines & Byrne, Ltd 80	Wyeth, John, & Bro., Ltd.
Parke, Davis & Co., Ltd. 61	
Peboc, Ltd	Zcal, G. H., Ltd
Peptinol (G.B.), Ltd 87	Emmormani, Chas., & Co., Etc

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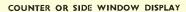


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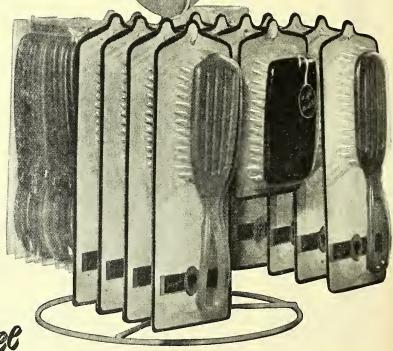
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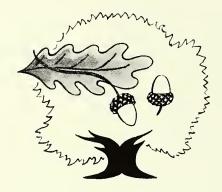
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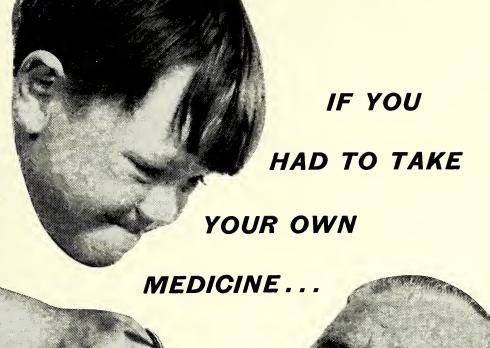
Methyl Nicotinate 1.0 % Glycol Salicylate 10.0 % Histamine Dihydrochloride 0.1 % Capsicin 0.1 % Excipient q.s.



#### WEST PHARMACEUTICAL COMPANY

WOOD LANE, LONDON, W.12

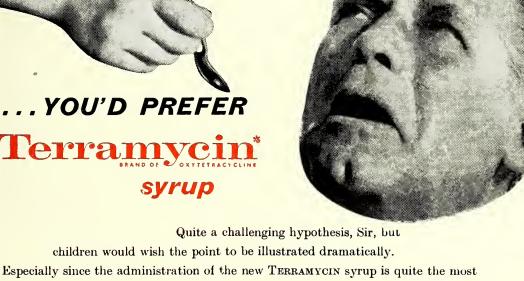
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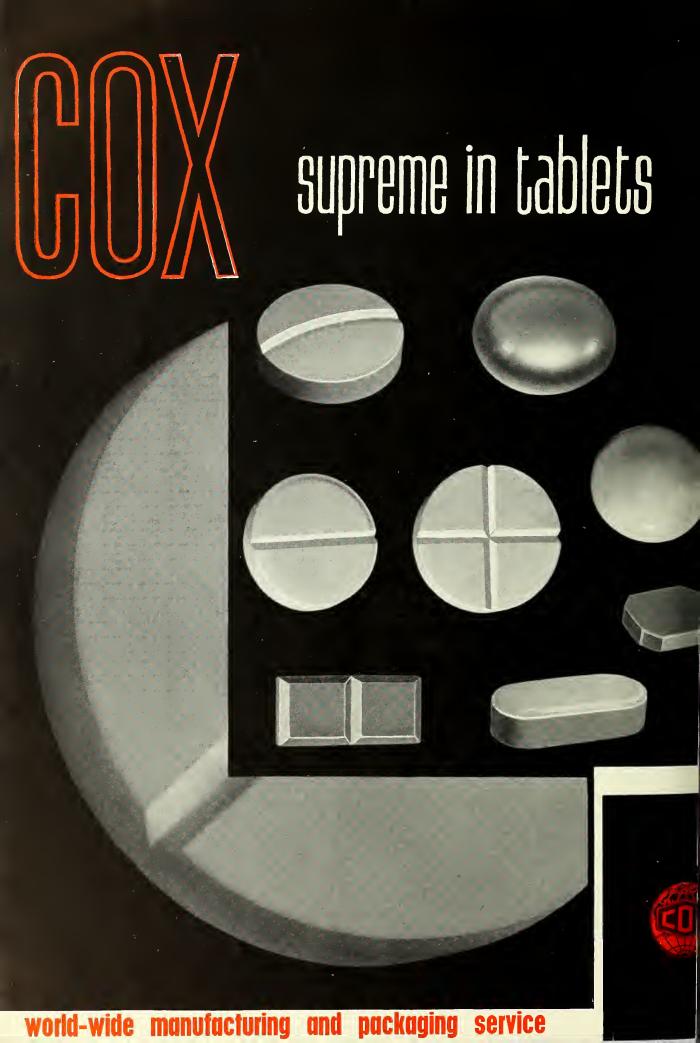
Supplied in bottles of 60 ml. Each large teaspoonful (5 ml.) of which contains 125 mg, of oxytetracycline activity.



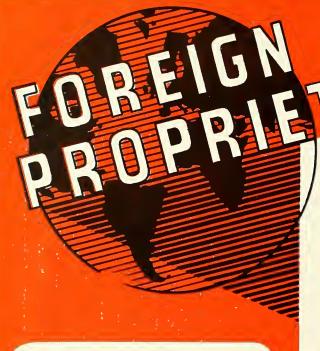
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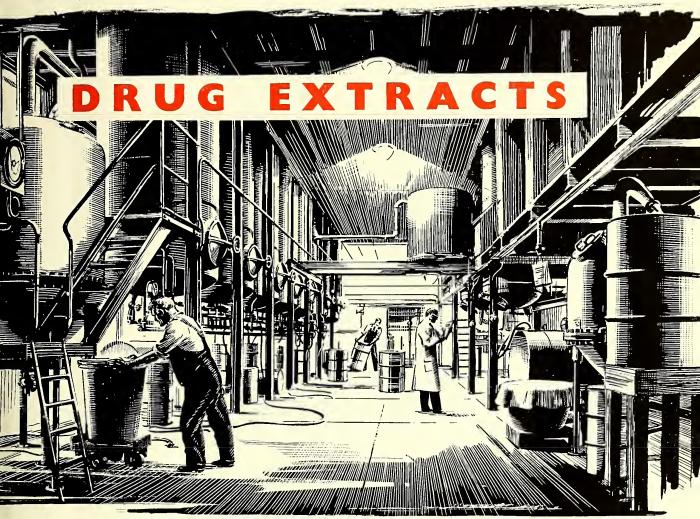
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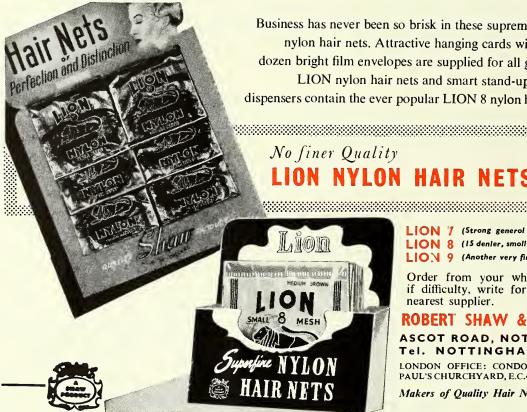
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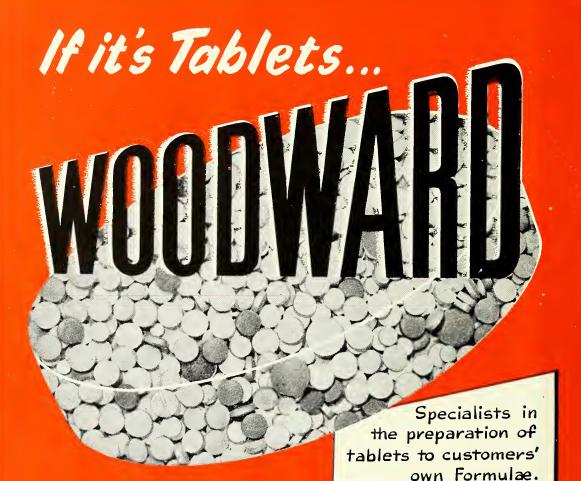
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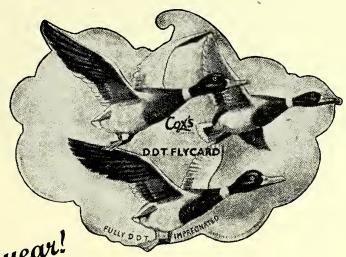
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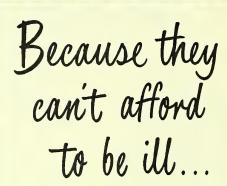
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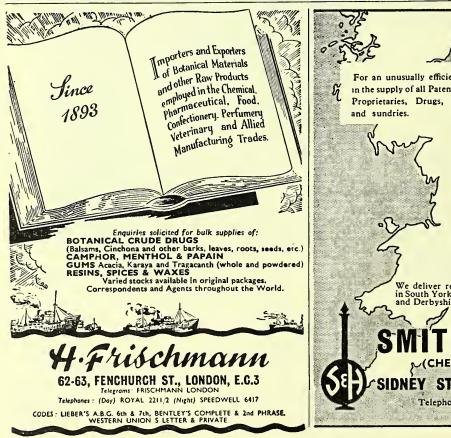
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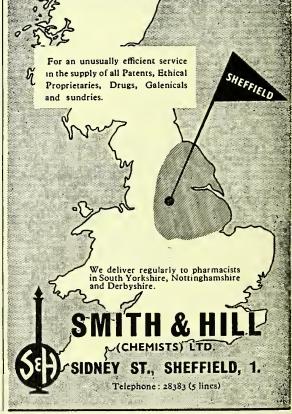
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Also DEXTROSOL Powdered Glucose in I lb. and  $\frac{1}{2}$  lb. packets — 2/9d. and 1/6d.



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Still the best hair tint. In all natural Shades. Stocked by all Wholesalers. Trade Prices: 1-oz., 21/- per doz.; 2-oz., 36/- per doz. Purchase Tax 90%. Retail prices, 3/11 and  $6/8\frac{1}{2}$  per bottle respectively.

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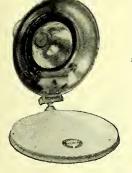
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The Uvisol combined ultra-violet and radiant heat unit houses the ultra-violet and radiant heat emitter in one 11 in. bellemitter in one 11 in. bell-shaped parabolic reflector with selector switch, which allows ray sources to be used inde-pendently. The reflector is mounted by a mobile joint to a weighted base which gives full stability and allows the model to be used for the treatment of a patient lying in bed or to be closed when not in use. The Annular Ultra-Violet Tube is of the low pressure type.





Ultra-Violet, Infra-Red

Tax Free Price

£14-14-0 for A.C.

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This Model comprises:

(1) A High pressure 150 watt Mercury Arc Quartz tube so powerful that on average skin only one minute's treatment at one yard distance is required.

(2) A 400 watt black body element that can be used independently and being 100% "front wired" has no radiation losses.

(3) A mains switch and a selector switch for Ultra-Violet com-bined and for Infra-Red alone, and a detachable plug-in flex connector.

(4) A miniature double box (sup-A miniature double box (supplied in four colours), each half housing one of the reflectors. The complete size is  $S'' \times S'' \times$ 

This model is described in a special leaflet which can be supplied on application.



#### MIXRAY Ultra-Violet.

Infra-Red and Radiant Heat

Tax Free Price £20 - 0 - 0

A.C. OR D.C.
MAINS. This popular model provides Ultra-Violet, InfraRed and Radiant Heat irradiation in
two Reflectors.

The Ultra-Violet Generator is of the Globular type, particularly suited for local treatment and produces an erythema in about 3/S minutes at 18 inches distances. thema in about inches distance.

The Infra-Red Element is the same as used in the Pira Table Model and has a loading of 600 watts.

The Radiant Heat Lamp (250 watts) is a silvered mushroom shaped Reflector lamp ideal for localised treatment or surface treatment, I tcan be screwed in the place of the Ultra-Violet Generator.

The focusing of the circular reflectors ensures effective part body irradiation.
The "Mixray" can in addition be fitted with a High Pressure Quartz Tube, and this supplementary fitting can be supplied at the tax free price of £6.

can be supplied at the tax free price of £6.

This contains the same Quartz Tube as the Actinea and Hyloray models.

Similar in design to the Mixray is the Twinray Model; tax free price £23 0 0. This model combines Ultra-Violet and Infra-Red irradiation, i.e., a body baths and producing an erythema in about 2/3 minutes at 3 ft. distance, with an 850 watt Infra-Red Element as used in the Pira Stand model.

The Twinray is 1' 2" wide and 4' 6" high with the telescopic arms fully extended and permits treatment to be taken either standing or lying down.

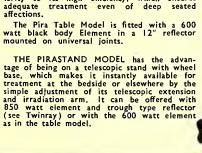
#### PIRA TABLE MODEL

Infra-Red Tax Free Price £9 - 10 - 0

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Infra-Red Tax Free Price £12 - 12 - 0

The deeply penetrating rays of the Pira Infra-Red Model have been for years relieving pain and comforting those subject to Rheumatism, Sciatica, Lumbago and similar complaints. It owes its wide popularity to its high efficiency, which ensures adequate treatment even of deep seated affections.



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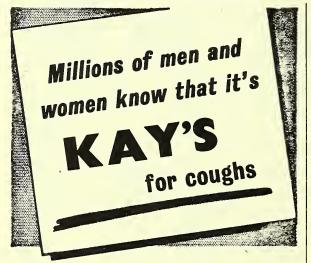
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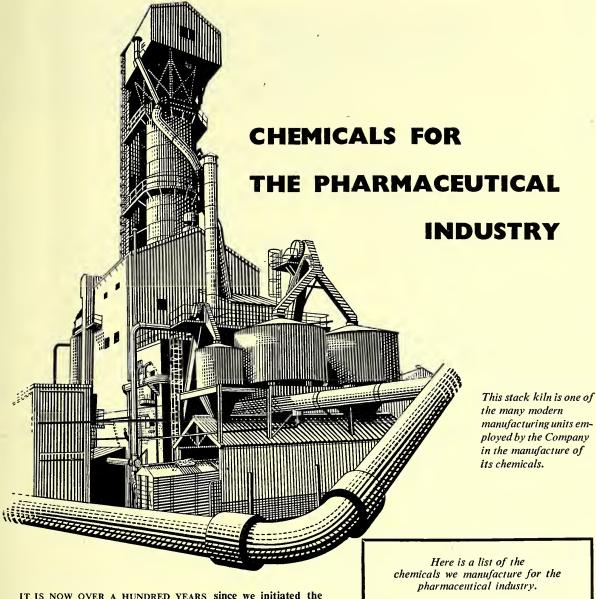
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**\*A Brief Evaluation of this Remarkable Trio by F. V. Wells** 

"It is a pleasure," writes Mr. F. V. Wells, M.R.I., F.C.S., "for me to introduce this altogether outstanding range of new Solid Flower Perfumes by Demuth. Accelerated shelf tests in my laboratories reveal their remarkable odour stability in a wide range of adverse conditions. From the technological point of view they approach perfection and, as examples of refreshing floral fragrance—lifelike, long-lasting and superbly true to character, they are unsurpassed." Mr. Wells' considered views on this outstanding Demuth achievement for 1956 are reproduced in the pages that follow.

LE foreign Member of the French Society of erfumers and Founder-President of the Society of netic Chemists of Great Britain, Mr. F. V. Wells is n throughout the world as a consulting perfumer Editor of the leading British perfumery publication, Perfumery and Cosmetics. Technical author and lopaedist, he is a frequent contributor to French merican perfumery journals, was invited to preside 7th International Congress on Cosmetology (Paris, and was chosen to represent Great Britain at the International Congress on Perfumery Research held gio-Calabria. Mr. Wells has lectured to specialists ince, Italy, Holland and the U.K. He is noted as dependent interpreter of Commonwealth research rfumery materials and not the least of his accomnents is an intimate acquaintance with Continental nery developments. In December, 1956, he again ents Great Britain at the forthcoming International sium on Perfumery to be held at the Maison de la Chimie, Paris.



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Demuth are, of course, pioneers in this field. As long ago as 1912 they introduced Frozoclone (Solid Cologne) —the first solid *alcebolic* toilet water in the world. In 1922 their Frozolavender was put on the market. achieved international success and became recognised as a standard by which all other solid perfumes were judged. They were unique at the time of their introduction because, unlike the conventional potash/glycerin soap products, they contained a very high proportion of alcohol (about 80 per Now, approaching a halfcent). century later and in the midst of vigorous and widespread competition, they enjoy an ever-increasing demand. That, possibly, is because they remain noted for their ice-cold freshness: the incorporation of a high proportion of menthol and other analgesics (for their headache-relieving and refreshing action) has been made possible by

the muting of the unpleasant modour by a special allophanate tion process.

The new Solid Flower Per however, represent a distinc separate advance on the technol and creative side of formulation fumers are well aware of the in tendency, in this type of produ phenomena of oxidation and esterification to give rise to inst and off-odours, and for the m itself to depress the delicate top and odour-shadings. Such defe sadly apparent in other solid per that I have examined, most of turn sour and lose their identity pletely in the space of a few The new Flower solids by D are unique in being completel from these otherwise common d (I speak from personal tests exte over several months.)

Mr. R. L. Demuth, whose ledge in this field is unrivalled siders that the solidified trans form has a psychological associ with ice—an anticipation and ex tion of great freshness; and fact, aesthetically unacceptable out this quality. As even the odour of the specially pro cooling agents used in Frozoclo Frozolavender would tend to c with the delicate nuances of so cated and true-to-life perfumes. than toilet waters, he felt that of scent of flowers, selected beca inherent freshness, lent themse expression in this medium, and then the technical difficulties in were very considerable.

Against the background these problems, Demuth's ne astonishing trio: Summer Muguet de Mai and Flower emerge as a real achievem tour de force of creative tea ability. The first delightfully duces the cool fragrance of a cut bunch of Crimson Glor Mrs. Anthony Waterer roses less lifelike are the sweet lily-valley perfume of the Muguet a (Continued on opposite the second continued continu

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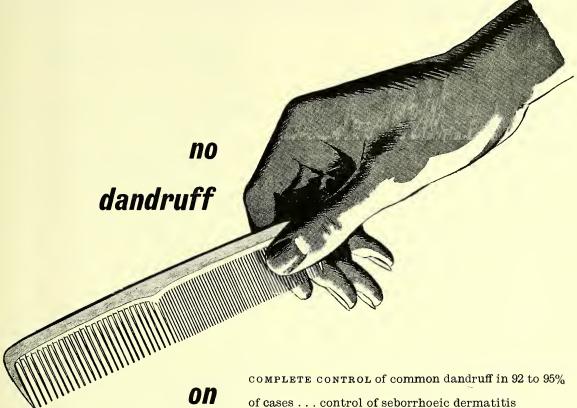
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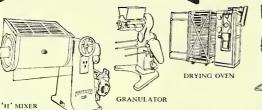
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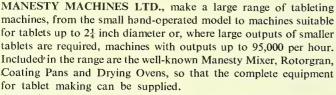


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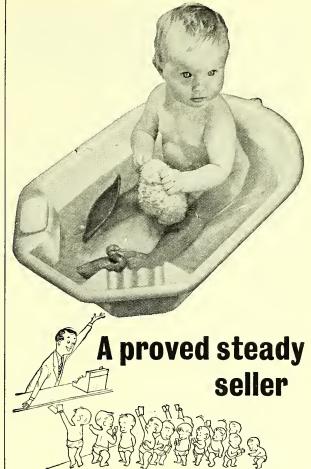
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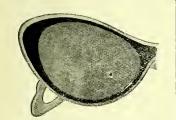


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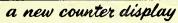
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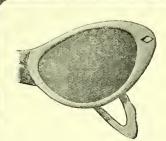
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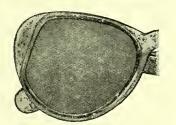
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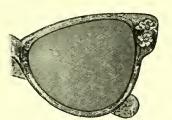
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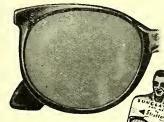
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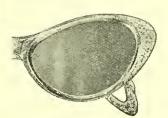
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Aci-fel For restoration and maintenance of normal vaginal acidity.

Bland, non-irritating highly buffered acid jelly for topical use in treatment of vaginitis.

Aci-fel: 85 gm. tube with or without applicator.

Triple Sulfa Cream For bacterial vaginal infections.

Combines three sulphonamides with urea peroxide for more effective control of a wide variety of vaginal pathogens. Relieves symptoms promptly, eliminates malodorous discharge.

Triple Sulfa Cream: 80 gm. tube with or without applicator.

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Contains the safe, effective antiseptic 9-amino acridine and allantoin.

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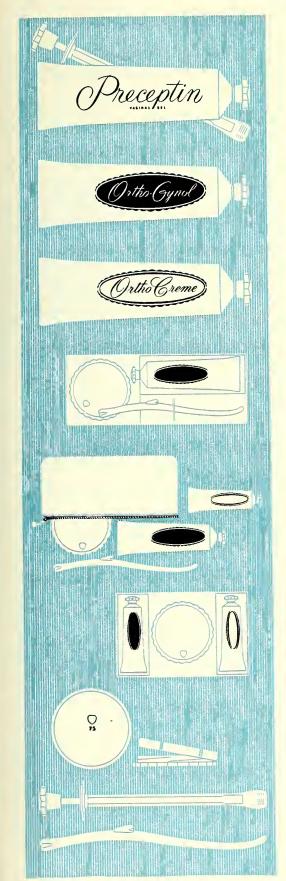
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the ethical name in contraception

Preceptin Vaginal Gel Contraceptive gel for use without

a diaphragm.

Package A: 85 gm. tube, with Ortho Applicator Package B: 85 gm. tube

Ortho-Gynol Contraceptive jelly.

Package A: 85 gm. tube, with Ortho Applicator

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Ortho Creme Contraceptive cream.

Package A: 75 gm. tube, with Ortho Applicator

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Ortho-Gynol Set Containing:

85 gm. tube of Ortho-Gynol

in sizes 55 to 95 Ortho Diaphragm

Ortho Diaphragm Introducer (in 5mm. gradations)

Ortho Creme Set

As Ortho-Gynol Set with tube of Ortho Creme instead of Ortho-Gynol in sizes 55 to 95 (in 5 mm. gradations)

Ortho De Luxe Kit Containing full size Ortho-Gynol, trial size Ortho Creme, Ortho Diaphragm and Diaphragm Introducer in woven plastic zipper bag. Sizes 55 to 95 (in 5 mm. gradations)

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Trial size Ortho-Gynol Trial size Ortho Creme

Ortho Diaphragm

Coil spring, sizes 55 to 95 (in 5 mm. gradations)

Ortho Applicator

For vaginal application of measured dose (5 cc.) Ortho-Gynol, Ortho Creme or Preceptin Vaginal Gel

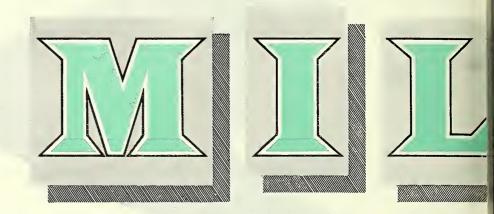
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Individual Introducers to accommodate diaphragms sizes 55 to 95 (in 5 mm. gradations)



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#### New, Safe, Powerful Tranquillizer .

With these important advantages

Selective action in anxiety and tension states

Valuable sedative, hypnotic and muscle-relaxing propertic

Absence of toxicity . . . negligible side effects

Relaxes the patient for natural sleep without narcosis

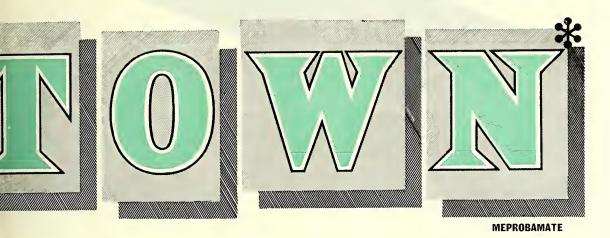
Muscle relaxant in muscle spasm, pain and stiffness

Has no specific effect on blood pressure

No influence on autonomic regulatory mechanisms



## resents



## far-reaching value in medical practice

Laboratory and clinical trials show MILTOWN to be the most remarkable tranquillizing drug yet discovered. Published reports on its initial success have been followed by its widespread adoption by doctors throughout America for restoring tranquillity in tension states, anxiety, stress and allied conditions. MILTOWN is now made available in Great Britain by Lederle.

Its value in the above conditions is due to an easing of the patient's anxiety tension, a lowering of irritability and its pronounced muscle relaxant action. It calms the patient for natural sleep. It has given a high proportion of good results in terms of relief of symptoms and a return to social productivity. It has proved effective in patients who have failed to respond to barbiturates and other conventional tranquillizers.

MILTOWN is fully active by mouth, shows a significant absence of toxicity and almost complete freedom from side effects. Among the conditions in which it has given good results are: Tension states, acute and chronic anxiety states, menstrual stress, tension headache, alcoholism, behaviour problems in children, hysteria and depression. In neuropsychiatric cases it has restored or improved patients who were delusioned, assaultive, noisy, disoriented and hallucinated.



(2 methyl-2-n-propyl-1, 3 propanediol dicarbamate) is supplied in tablets of 400 m.g. for oral use. Bottles of 50.

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Recommend it with assurance for Eye Strain, Tired Eyes, Inflammation etc.

Retails at

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(Including Eye Bath)

Cost Price 18/- per dozen Plus 5/5 P.T.

LARGE SIZE 10 OZS. per bottle

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## **DISPLAY OUTERS**

each containing Six Bottles . . .



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EYE BATHS
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Prepared by

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## is the answer to this summer problem

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KIK keeps insects right away. Applied to exposed skin it creates an invisible barrier which the midges will neither penetrate nor even approach.

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This new discovery is attractively presented and made available in this country by Thomas Kerfoot & Co. Ltd.

Everything about KIK is new and distinctive — in keeping with the product itself — a magnet for summer sales. Show it and you will sell it.

RETAIL 3/9 TRADE 25/-

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Lightning quick cash

You can establish customer goodwill by issuing an itemised and correctly totalled receipt to each customer. A duplicate copy remains as a locked in record of every transaction.

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Your up-to-the-minute turnover can be obtained at any time during the day by simply pressing a button.



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The public likes to see efficiency and efficiency attracts the public. The smart clean line of the Regna Cash Register on your counter takes but half the valuable space occupied by old fashioned machines compact and super efficient you can be proud of its appearance in your shop.

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Visible control detail rolls, clearly printed and easily read. Repeaters and multiples can be





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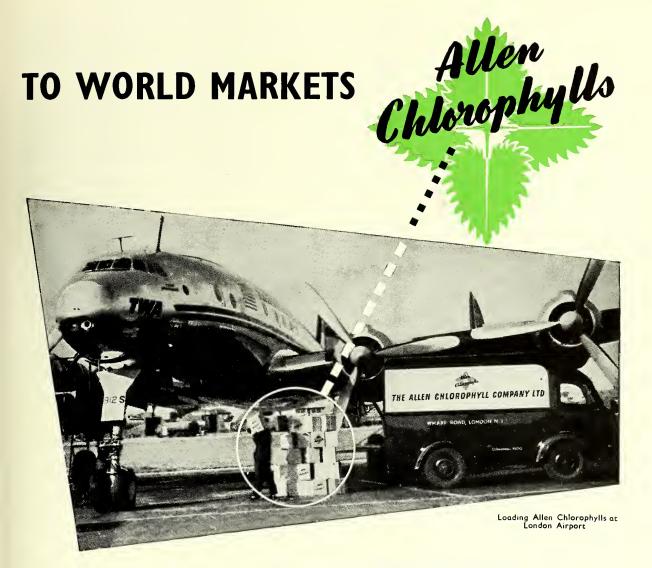
lar model to suit your needs.

REGNA CASH REGISTER CO., 27 John Adam St., London, W.C.2. Tel: TRA 3718

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strict scientific control. We place our research facilities and long experience freely at users' disposal and welcome enquiries as to the best grades of chlorophyll for any particular application.

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**DISPENSING BOTTLES** 

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TABLET BOTTLES

Nos. 1 to  $7\frac{1}{2}$  sizes.

ROUND SCREW JARS

Tall and Semi-squat.

**BOW-FRONT PANELS** 

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**VIALS** 

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**OLIVE OIL BOTTLES** 

 $2\frac{1}{2}$ -oz., 5-oz. & 10-oz.

WHOLESALE ONLY

- Prompt delivery from stock
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79



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LOOK FOR THIS LABEL

Articles bearing this label are made from 'Alkathene', the sign of the highest quality

C HE'S IN THE NEWS. She's selling 'Alkathene' houseware for you in the National Women's Magazines. Things made in lovely light, bright 'Alkathene' are never hard to sell! They're virtually unbreakable, never dent, rust or chip. They are long-lasting, hygienic, easy to clean. You only have to sell one article made from 'Alkathene' to a housewife and she'll come back for more!

## HELP YOURSELF!

'Alkathene' houseware is receiving a lot of publicity in the national and women's magazines. All these advertisements will feature the 'Alkathene' label, and this will ensure that the housewife will ask for 'Alkathene'.

The full weight of all this advertising is behind your sales drive. In addition, striking and attractive display material may be obtained on request from your normal suppliers. Why not organise your own 'Alkathene' Week with special window and interior display? That is the way to gain customers and profit from the 'Alkathene' National Campaign!



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 $\star$  'Alkathene' is the registered trade mark for the polythene made by I.C.I.



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## Bislumina

It is sufficient to state the in vitro properties of Bislumina brand of Bismuth Aluminate as above. Of more practical value is the observation that the preparation works. In cases of dyspepsia, with or without peptic ulcer, symptoms are rapidly relieved with no untoward side effects. This is the prime requirement, which Bislumina so adequately fills.

Bislumina—is a registered trade mark



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The changing seasons bring a changing face to the Ransom drug-growing farms at St. Ives in Huntingdon. Yet month by month, throughout the year, research continues . . . research into new strains of medicinal plants and new methods of cultivation. This constant quest yields a year-round harvest of new knowledge—adding fresh chapters to the story of Ransom progress. Meanwhile at Hitchin, the Company's production facilities continue to expand, keeping pace with the ever-growing demand for the trusted drugs and galenicals that bear the hall mark of the house of Ransom.

Samples and quotations on request.

EXTRACTS · TINCTURES · ESSENTIAL OILS · RESINS · CHLOROPHYLL

Actual Growers of

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Established 1816



WILLIAM RANSOM & SON LTD.

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## The foremost negative-positive process

All Agfacolor Processing Stations have extended their production capacity to give a good service and to maintain the usual high standard of quality.

Please send orders for processing Agfacolor negative film, printing and enlarging direct to one of the accredited Agfacolor Processing Stations—

"Fencolor Laboratory," 11a Newmarket Road, Cambridge. Telephone: Cambridge 54507.

Messrs. Jones & Bailey, Ltd., 70/72 Brewery Road, London, N.7. Telephone: North 2533.

Millcolor, Ltd., 48-49 John Street, Brighton. Telephone: Brighton 62125.

Messrs. Tempo Laboratories, Ltd., 80/82 St. John's Road, Tunbridge Wells, Kent.

Telephone: Tunbridge Wells 21019.

Messrs. Turners (Colorfoto) Ltd., Camera House, Pink Lane, Newcastle-upon-Tyne 1.

Telephone: Newcastle 25391.

AGFA LTD., LONDON, DO NOT ACCEPT ORDERS DIRECT FOR THE PROCESSING OF AGFACOLOR NEGATIVE MATERIALS.



## Reversal Film for sparkling colour transparencies

Fast (25° scheiner) emulsion rating giving greater scope to transparency enthusiasts.

Retail price of Agfacolor reversal films includes processing charge. Users should send their exposed Agfacolor reversal film direct to Agfa Ltd., Deer Park Road, Wimbledon Factory Estate, London, S.W.19, for processing. Full instructions and envelope for the purpose contained in each film carton.

Agfa Ltd. are pleased to announce that Agfacolor enlargements can now be made from 35mm Agfacolor Reversal films by means of an intermediate negative at a retail price of 3s. 6d. each subject for the negative. From the intermediate negative any number of Agfacolor enlargements can be produced at listed prices: size  $3\frac{1}{4}$ " x  $4\frac{1}{2}$ ", 4" x 4", 4" x  $5\frac{3}{4}$ ", 5" x 7". Only transparencies of normal gradation or slightly under-exposed are suitable for this process. Too contrasty or over-exposed transparencies will not give satisfactory reproduction. Orders for this work to be sent direct to one of the five accredited Agfacolor Processing Stations listed above.

## Agracolor REVERSAL CINE FILM for superb natural-colour movies.

Double 8mm (25ft) standard spools. Movex cassettes, single run, 50 and 100ft. 16mm standard spools, Siemens cassettes.

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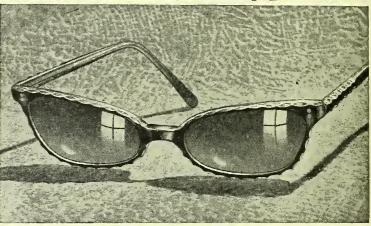
THE LOVELY

## S. DISTINGUISHED... LIGHTWEIGHT

Here is the latest eyewear style from the Continent designed especially for those whose leisure time is spent in the sun. It is one of the many styles we have available to meet all demands at prices to satisfy all markets.

## IDEAL FOR THE SUN-TAN ENTHUSIAST

The upswept eyeshades on this two-tone scalloped style are petite yet they give adequate protection against glare while minimising shadows in sun-tanning. Stocked with smoked lenses or ombral shaded with graduated mirroring.



Fuller details gladly sent on request.

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It's prepared with naturally pure sparkling water from Strathmore Springs in Scotland.

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For the treatment of stomach ulcers

THIS unique product is now available on the British market, and can be obtained from the sole concessionaires for the United Kingdom, at the address given below.

In view of the remarkable success in many parts of the world of the DE-NOL method in the treatment of ulcerative conditions of the stomach, it is anticipated that the product will enjoy an extensive sale in the United Kingdom.

The Retail Price of the DE-NOL treatment is £14 · 2 · 3 (including tax).

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Terms and literature on request:

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## MEDICINAL NORIT

Holland's great remedy for stomach disorders. This famous Dutch preparation of pure activated Charcoal IN TABLET FORM

is now available in Great Britain.

Supplied in Display Boxes of 12 Tubes each containing 25 Tablets.

RETAIL PRICE 2/6 PER TUBE

Advertising has begun in the Sheffield, Blackburn and Burnley areas and will continue in others.

Order from your usual wholesaler or-

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FOR 1957

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> SPECIAL DISCOUNT FOR EARLY ORDERS

## James Townsend

SPECIALIST CHEMISTS' PRINTERS

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## GOOD VALUE and LOOKS IT!



Every busy Chemist is interested in a Camera that will sell itself. The popular Ful-Vue demands no expert knowledge to sell, involves no large capital outlay and ensures the greatest possible turnover in every district.

Probably more Ful-Vues reach the public over the Chemist's counter than through any other retail outlet, proving that in price and popular appeal the Ful-Vue is absolutely right for the snapshot market. The Ful-Vue is a Camera that sells on its looks as well as its performance, it is good value and looks it.

COLOURED FUL-VUES in RED and GREY are also available.

RETAIL PRICE 62/7

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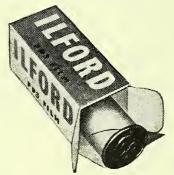
FLASH UNIT 25/-



ROSS ENSIGN LTD., CLAPHAM COMMON NORTH SIDE, S.W.4



More and more photographers are discovering ILFORD FP3. Season after season, this outstanding film has been steadily mounting in popular favour and the signs are that this year will see a record demand. Beginners are buying more because FP3 gives a new quality to everyday snapshots;



experienced photographers are buying more because they appreciate its beautiful gradation, balanced colour response and very fine grain. So check your stocks regularly and get all set for an FP3 season. You can't afford to run short of this fast-selling film.

## ILFORD FP3

## ROLL FILM 35mm FILM

## Check your stocks of the Ilford Envoy!

Sales of the Ilford Envoy camera are being steadily built up by planned advertising in teenage and grown-up publications. An Envoy in your show space is a magnet for their custom. At 41/8d, it's the sort of bargain that none can resist.



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for the WHITE LILAC rush!

WHITE LILAC is the latest santowel of the famous Southalls range. This pure cellulose, soluble santowelisguaranteedatop-seller because"WHITELILAC" is made to a design specifically required by every woman. Every Wholesaler and Retailer is given the opportunity of cashing-in on the intensive summer promotion campaign for "WHITE LILAC". Salescompelling advertisements are appearing in a large number of national dailies and popular women's magazines which will be read by 25,000,000 women in July and August. Attractive Dispenser units and show material are being placed by Southalls Representatives or can be obtained on request.

Order NOW for prompt deliverythrough your usual wholesaler.

## WHITE LILAC

SOLUBLE SANTOWELS by Southalls

RETAIL PRICES Standard (doz.) 1/11d. Size 1 (doz.) 2/2d. Size 2 (doz.) 2/5d. Standard (\frac{1}{2} doz.) 1/-Southalls (Birmingham) Ltd., Charford Mills, Birmingham, 8





News of an expanding market that should be of interest to every chemist

## Quite frankly, I have been amazed at the sales of

Good-Good says Mr. G. S. Laurenson,
Managing Director of Golden Ltd.,
distributors of L'Oreal Products.

The success of Color-Glo and the great volume of sales which has accompanied its launching, make it clear that here at last is a hair colouring product that is changing the attitude of British women towards hair colouring. Such a change of attitude will inevitably bring with it a great increase in the chemist's turnover and profit.

Why has Color-Glo been so successful?

Firstly I would say, because it is so simple and safe to use.

Secondly because it offers "controlled colour"there's no risk of extreme results.

Thirdly, it gives a natural colour — a richness of colour that blends with and enhances a woman's own natural colouring.

Fourthly, because it gives a lasting colour that lasts through 6 to 8 shampoos.

Finally, Color-Glo is heavily advertised (in full colour whenever possible) in the mass circulation women's weeklies. This is directed at the woman who has never dared to beautify her hair with colour before -because no product so easy to use as Color-Glo has ever been offered before.

Color-Glo will go on widening the market for hair colouring—and go on breaking sales records. All chemists will be well advised to keep an eye on their Color-Glo stocks. We know that when a woman makes

up her mind to try a particular Color-Glo shade, she will go a long way to find it. When Color-Glo enthusiasts come into your shop, let them see Color-Glo on your counter.

Color-Glo is made in six shades:

MOLTEN GOLD · GOLDEN CHESTNUT · AUBURN DEEP AUBURN · HONEY BROWN · DOVE GREY

Retail price 4/6d per bottle Trade price 22/6d per dozen plus 90% tax



GOLDEN LIMITED, 7 GROSVENOR STREET W.I. HYD. 1671/6

Trade enquiries for the I e blic of Ireland should be addressed to: LILMAR PHARMACEUTICALS LTD., SANTRY, DUBLIN

## and now-

## FINGER-TIP

for the beauty counter

Aerosol dispensers make their first appearance on the beauty counter! Adaptable for all liquid beauty products which can be applied as a fine spray, the aerosol dispenser perates immediately at the touch of a finger. Attractive eye-catching designs and fullcolour printing by Metal Box will make

hem outstanding in any display. A range of gay, clip-on caps can be provided.

Metal Box maintains a pilot filling plant at its Research Laboratories and a pecialised research staff whose services are available to any manufacturer vho wishes to investigate the suitability of an aerosol container for his wn products.







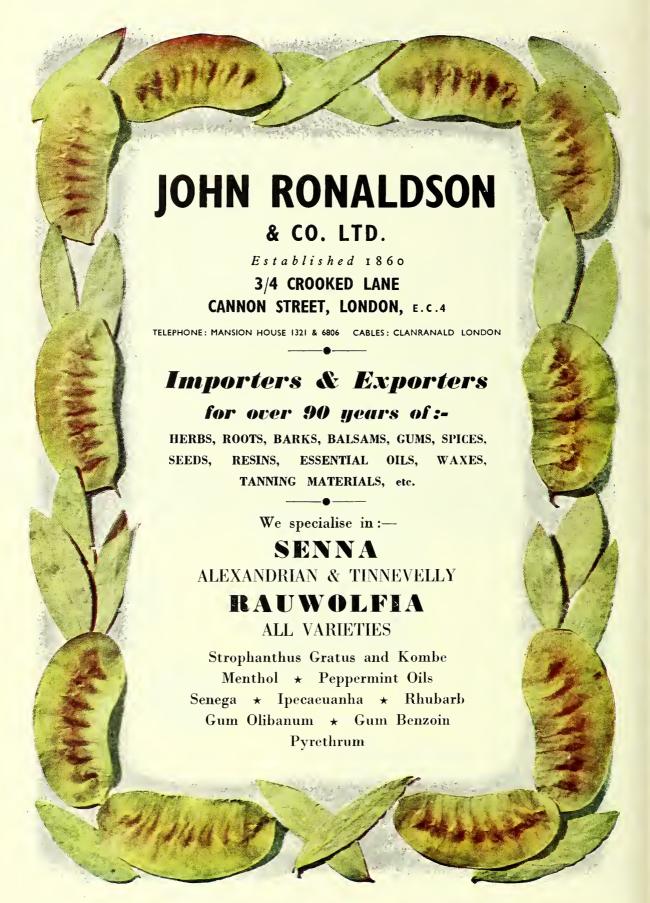


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Metal Containers · Paper Products · Flexible Packages · Plastic Films and Laminates

The Langham · Portland Place · London W.1.





A few more Julian Polythene "Customer Specials."

Our own method of tooling makes the "Customer Special" an economic proposition — even for short runs. Printing in several colours of course, embossing too, as will be seen in the middle right.



Only the genuine
"SKYLON"
product bears this
Trade Mark.

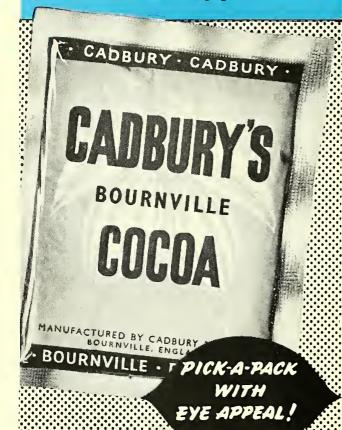
Don't they make a lovely display? Think how "SKYLON" could help sell Your Product — may we help you? — don't forget our range of stock moulds!



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Unit Packaging



BABY SHAMPOO TENS Johnson of Johnson

Ideal for tablets, powders, creams, liquids and for almost any small article, these economical packs offer perfect protection from manufacturer to consumer.

IVERS-LEE (Great Britain) LTD.

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Telephone: Slough 21234

## Build up Goodwill with . . .



Many Chemists are recommending 'ELASTO' to their customers with mutually good results.

P.A.T.A.

NEW ERA LABORATORIES LTD. Cecil House, Holborn Viaduct, London



Untiring devotion to duty at all times has carned for the police force the respect and admiration of the public. We know that we have claim to unfailing service in time of need. Sumner's are proud of their reputation for speedy, accurate service as suppliers of drugs, galenicals, dressings, instruments and proprietaries.

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Push up your summer profits with these popular Barnet gift lines. Let these handsome Barnet quick-sale cabinets do your selling with full profit margin for you. Each cabinet presents a variety of lines in a range of prices to suit every purse. Ask your wholesaler about Barnet gold blocked souvenir lines and remember to display Barnet Comb cabinets—good sellers throughout the year.



No. C. 19 YANITY SET CABINET. Contains  $4\frac{3}{4}$  dozen attractive crested lines retailing at from 1/4 to 4/6. Cases in plain calf finished plastic in six delightful colours, gold blocked with town crest.

This cabinet shows you £1.18.7 PROFIT.

No. V. 19. As above in gold printed 'Venetian' plastic.



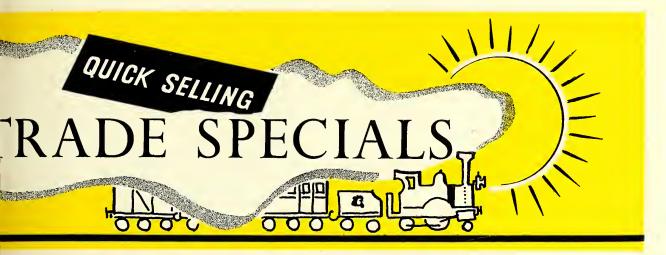
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This cabinet shows you £1.16.5 PROFIT.

(Right) -No. V. 21 VANITY SET CABINET. Contains 2½ dozen pocket sets retailing from 1/6 to 3/6.

This cabinet shows you 18/11 PROFIT.





Iere's just a few models from the popular ange of top value Barnet sunglasses which come attractive display dispensers. Your wholealer will show you the complete range.



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shapely frame in sparkling flitter crystal. etails at 3/6 or more.



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An elegant lightweight metal half frame with plastic rimmed Crookes lens in this smart dispenser.

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### (Below) BARNET SUNGLASS CASE.

A metal reinforced case in beautiful calf finished plastic in delightful colours. Fits any type of sunglass.

Retails at from 3/6.



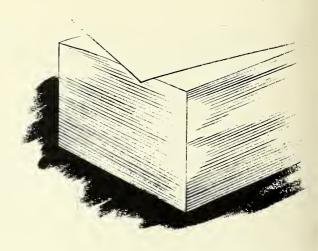
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OTTLES

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Zoflora is now being nationally advertised in the foremost woman's magazines and large advertisements, are appearing in the provincial press. Why not take advantage and stock up right away Zoflora sells itself and ensures repeat sales.

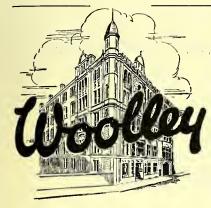


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Zoflora Aerosol is an addition to the popular range of Zoflora floral disinfectant and will feature in all this season's advertising. We anticipate a strong and persistent demand for this product.

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### SPECIAL BONUS

To ensure early stocking to meet the demand created by National Advertising and the 1,000 Free Gift Competition a special Bonus will be given for all orders despatched by 31st July 1956.

I Free container with I doz. order

,, 2 ,, ,,

### NATIONAL ADVERTISING

CHANDAU Soft Curl Set will be nationally advertised. First announcements will appear at the end of July. Be ready to meet the demand!

### FREE GIFT COMPETITION

1,000 Gifts including 100 Hair Dryers will be given away to successful competitors in a simple 'Hair Style of the Month' Public Competition. Entry forms with every Display box.

PRICES: Retail 5/6 per Spray container. Trade 26/8 per doz. plus P/Tax.

## Order Today

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### THE BOWATER-SCOTT CORPORATION ANNOUNCES THAT-

# If you can't get all the Andrex toilet tissue you want— DON'T BLAME YOUR WHOLESALER!

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For the next few weeks you may find that there will be some delay in deliveries of Andrex Toilet Tissue
—Single and Double Packs.

It's not the fault of your Wholesaler. It's simply that the public demand for Andrex Toilet Tissue has grown so dramatically and rapidly that, for the time being, we of the Bowater-Scott Corporation can't meet all orders as quickly as we—and you—would like.

But production has already been considerably stepped up—and will be yet again during July—

so that we expect to catch up with demand very shortly.

In the meantime, we would ask for your understanding and for your continued support for our other lines. And we would like to take this opportunity of giving you the first bulletin about the new Bowater-Scott Corporation and the great expansion programme now under way—see the opposite page. Further bulletins will be published at three-monthly intervals in this journal.



## The Bowater-Scott Corporation Limited—

## A GREAT NEW FORCE IN HOUSEHOLD PAPER PRODUCTS

BULLETIN No. 1

As you have probably read in the National Press, the Bowater-Scott Corporation Limited has just come into being. It is a new British Company owned equally by The Bowater Paper Corporation Limited—whom you know best as makers of our "Andrex" lines—and Scott Paper Company of the U.S.A.—the leading American producers of household paper products.

The new Corporation's objective is to further promote public awareness of the hygienic value of household paper products and to meet demand with *entirely British-made lines of the highest quality and efficiency*.

To this end, a great and growing expansion programme is under way. To the St. Andrew Mills at Walthamstow, where the famous "Andrex" lines are produced, will be added new tissue mills at Northfleet, Kent — the most modern tissue mills in the world. These are already under construction—and, indeed, the first high-output machine will be in operation by February next year.

In Sir Eric Bowater's own words, "We regard this new venture in partnership with Scotts as one of first-class importance, for it is our belief that the market for this type of paper products in the United Kingdom has hardly yet been touched, whereas in the United States it is already highly developed."

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4" wide x 1½" deep. In cartons containing six for window or counter display.

One-handed action--leaves the other hand free to uncover pest's hide-outs, thus giving maximum destroying power. Every puff can be made to count. Robust construction, light and easy to handle, mechanically foolproof, no parts to go wrong, Easily and quickly recharged. Indispensable to Horticulturists, Dog Breeders, Bird Fanciers, Hotel and Restaurant Kitchens, in the Home and wherever insect pests breed.



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Sample and prices on application.

**Builds Up Nerve Power** 

There is an unlimited demand for this new Biochemic Tablet. Show it — it Sells on Sight!

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SPRAYING HAIR LACQUER
In the new super spray. This fine, fast-selling product is an article you can recommend with confidence. Price 20/- per dozen, P.T. 18/- per dozen. Retail 4/3d, REFILL Sachet 13/- per dozen. P.T. 11/8d, per doz. Retail 2/8d.

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The ultra light, high gloss, vitamized oil. 50 helpful to all drier types of hair.
Price 17/6d. per dozen. P.T. 15/9d. per dozen. Retail 3/9d.

EGG AND LEMON SHAMPOO

The nutritive 24 cream shampoos in the plastic dispenser injector bottle, Price 25/- per dozen, P.T. 7/6d, per dozen, Retail 3/9d. In 3 shampoo tubes 5/- per dozen, P.T. 1/6 per dozen, Retail 3/9d.

COLOUR STREAK

In 6 lovely shades, Just brushes on. Price 17/6d. per dozen. P.T. 15/9 per dozen. Retail 3/9d.

BRILLIANT GLITTERS

Which give the effect of diamonds in the hair, In 6 shades. Price 13/- per dozen. P.T. 11/8d. Retail 2/8d.

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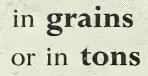
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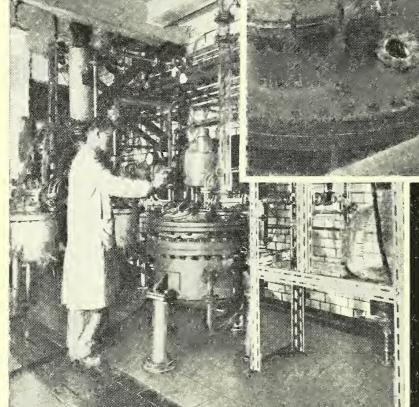


Pharmaceutical Sales Division, RUTHERGLEN, SCOTLAND



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The strictly accurate, analytical control of GEIGY Barbiturates at all stages in their manufacture ensures that every grain of the many tons produced in our works

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# CHEMIST AND DRUGGIST

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

ESTABLISHED 1859

# ANNUAL SPECIAL ISSUE, 1956

Volume 165

No. 3984

## CONTENTS ONE OF THE MOST MODERN PHARMACIES 570

Impressions of the Mohlenpris Apotek, Bergen, Norway	
THE RED ROOM OF ROYALTY A reminiscence of pharmacy on the Cote d'Azur	572
THE BOKE OF CHYLDREN T. D. Whittet Re-issue of a sixteenth-century treatise	<b>57</b> 3
CONFERENCE FORETASTE Progress in arrangements for the Dublin meeting	575
DUBLIN'S FAIR CITY An introduction to the Conference city and environs	577
APOTHECARY'S SHOP AT KIRKSTALL MUSEUM A glimpse at the shopping methods of other days	580
BRAZILIAN GUARANA An account of its sources, handling and commerce	581
BOTANICAL DRUG CULTIVATION IN HOLLAND A post-war enterprise in a neighbouring country	583
CORTISONE FROM SISAL WASTE Steps in the successful development of a hecogenin source	<b>588</b>
PHARMACIES OF BRITAIN—47 An artist's sketch of an unusual "round" pharmacy	592
AN INDUSTRY TAKES SHAPE Progress of the Burma Pharmaceutical Industry	595
THE PEDLAR APOTHECARY Colour plate reproduced from an old print	601
AID TO THE IDENTIFICATION OF TABLETS Markings of white and facsimiles of coloured tablets	602
HARMLESS "POISONS"  "Properties" used in poisonings on stage and screen	606
CHERUB DESIGNS ON DRUG JARS Agnes Lothian Rise and decline of a decorative motif on English delft apothecary ware	608

INFANT FEEDERS AND F DAYS T. G. H. Drake Changing methods and their containers		614
NINETEENTH - CENTURY  Audrey Noel Hume  A manufacturer's patent and		OTS 618
A notable vendor of medicin		620
PHARMACY AT BRISTOL  1. The apothecary shop	ROYAL INFIRMARY Laurence Dopso	
Correspondence		. 593
From the Publisher's Pages		. 567
Hospital Pharmacy Forum		. 594
Leading Articles:—		
Information, Interest and E	intertainment	. 599
Overseas Trade in Drugs I		. 599
Relief for British Compani		
Onward from Galen		<b>504</b>
Rise of the Biochemical Engin		500
Topical Reflections		562
United States Developments		7.00
Unknown Prescriber (verse)		554
Unknown Prescriber (verse)		. 374
Births 565	New Products	566
Business Changes 565	News in Brief	563
Coming Events 628 Company News 564	News of the Week	561
Company News 564 Deaths 565	Personalities Pharmacist's Anthology	565
Echoes of the Past 587	Price Changes	628
Fifty Years Ago 594	Scottish News	562
Information Wanted 600	Sport	563
In Parliament 564 Irish News 562	Trade Marks	628
Irish News 562 Marriages 565	Trade Notes Trade Report	566
303	Trade Report	021

INDEX TO ADVERTISERS, Pp. 5, 6 & 8

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A good display of 'Marzine' now will ensure that you get your full share of this profitable business.

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SAFE FOR

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TRAVEL SICKNESS

SHOW MORE SELL MORE

SAFE FOR ALL AGES

Marzine

COLOURED MOBILE

'Marzine' stops travel sickness

COLOURED SHOWCARD

By a sussmuch with the except

Check your stocks of 'MARZINE'—remember that our Bonus offer holds good until the end of July. Orders for 3 doz. or more, carry a bonus of one free tube for each dozen.



Volume 165

JUNE 30, 1956

No. 3984

# Advertising of Medicines

### TRIBUTE TO CONTROL BY MANUFACTURERS

TRIBUTE to the work that had been done by manufacturers in voluntarily controlling the advertising of proprietary medicines through the Proprietary Association of Great Britain was paid by MR. G. R. POPE (assistant manager, *The Times;* chairman, British Code of Standards Committee; and of Executive, Advertising Association) on June 21.

He was addressing members of the P.A.G.B. at a luncheon held before the annual meeting of the Association.

Mr. Pope, who was present as guest of honour, also outlined the activities of other organisations that had joined in supporting the voluntary system. He appealed for even wider support for those organisations and in particular the Advertising Association. He suggested that a greater effort should be made to inform the public generally, and other groups in particular, of the tremendous strides which had been made in raising to a high level the standard of advertising and marketing of proprietary medicines.

At the annual meeting of the Association, Mr. Ernest Brown, C.H., M.C., was elected Chairman and the two Vice-chairmen, Messrs. H. G. Lazell and S. W. Day, and the Treasurer, Mr. B. A. Elliman, were re-elected. The thirty-sixth annual report of the Association's executive, presented to members at the meeting, states that membership is now ninety-four. Anestan, Ltd., Persomnia, Ltd., and Racasan, Ltd., became members during the year. Resignations were accepted from Kay Bros., Ltd., Virol, Ltd., and Kenwood Laboratories, Ltd. The number of items of advertising "copy" submitted by members for approval during 1955-56 was 1,134 compared with 866 the previous year. The number of labels, leaflets, cartons, etc., submitted was 100 (124).

# Aspects of Retailing

CONFERENCE PAPERS PUBLISHED

SETS of ten papers given at the second conference of the British Institute of Management recently are now available at 10s, each (5s. to members and subscribers of B.I.M.). Included among the papers are the following: "Retailing" by Mr. W. R. Austen Hudson (chairman and managing director, William Cussons, Ltd.); "The customer's contribution to good retailing" by Mrs. Marjorie Byrne (chairman, Women's advisory committee, British Standards Institution); and "The training of executives" by Mr. W. C. Jarvis (retail staff training manager, Boots Pure Drug Co., Ltd.).

## **Key Industry Duty**

CHEMICALS ADDED TO LIST

THE Board of Trade has added the following to the list of chemicals liable to Key Industry duty:—

Antazoline hydrochloride 2-Chloro-1:4diethoxybenzene -Chlorothiophenol Ditertbutyl peroxide 2:4-Dichlorophenyl benzenesulphonate Dimethyldichlorosilane Hexamethyldisiloxane Methoin Methyl ethyl ketone peroxide Methylphenyl-

dichlorosilane Methyltrichlorosilane Naphazoline hydrochloride and nitrate Peracetic acid Piperazine adipate, dihydrochloride, sulphate and tartrate Pyridoxine hydrochloride Trimethylchlorosilane Tripiperazine diphosphate

# **Cost of Drugs**

MINISTER OF HEALTH'S COMMENTS

THE cost of drugs was discussed by MR. R. H. TURTON (Minister of Health) when he addressed the annual confer-London on June 14. He asked whether the instruction and training of the medical student and young doctor sufficiently armed him to face the difficulties of present-day prescribing. What was the influence exerted by the hospitals both on young doctors and on doctors established in practice whose patients were referred to hospital? Should more be done about pressure from patients? And what about the pressure on the doctor by modern pressure on the doctor by modern methods of salesmanship for drugs? Mr. Turton said that while he had to consider all possibilities of limiting the amount spent on drugs (so far as it could be done without detriment to the patients), it might well be that after further consultation with the General Medical Services Committee it would be advisable to look further into some of those unanswered questions, and he knew that he would have the Committee's co-operation. A motion that the offer of the Association of British Pharmaceutical Industry to increase the rate of discount on proprietary pre-parations from 10 to 20 per cent, should be accepted was agreed to.



STERILISATION DEMONSTRATION IN BELFAST: Preparations in progress for a demonstration of techniques of sterilisation in Belfast, one of a number organised by the Northern Ireland Local Pharmaceutical Committee, In the picture are Mr. A. Templeton, J.P. (chairman of the Committee), Miss A. E. Strachan (secretary), Mr. J. A. Strahan (senior pharmacist, Royal Victoria Hospital), and Mr. G. E. McIlhagger (deputy chief pharmacist, Royal Victoria Hospital).

#### SCOTTISH NEWS

### **Annual Meeting**

SOCIETY'S SCOTTISH DEPARTMENT

THE annual meeting of members of the Pharmaceutical Society resident in Scotland and the Scotlish Branch Representatives' meeting were held jointly in Edinburgh on June 13.

THE CHAIRMAN (Mr. W. A. Park), presenting the annual report of the Scottish Executive for 1955-56, said that the most important subject before the Executive had been the educational policy of the Pharmaceutical Society. The setting up of clinical laboratories in various parts of Scotland had been under the care of a subcommittee. The project could be of material value to Scottish pharmacy and increase in no small measure the prestige of the profession. The Executive was concerned with the intake of apprentices, especially to retail pharmacy. Speakers had visited schools advocating the claims of pharmacy. The Executive would appreciate it if members would either undertake that missionary enterprise themselves in their various districts or request the assistance of York Place. In an endeavour to cater for members remote from the main centres, the policy of the Executive had been to create new branches. Mr. Park appealed "most strongly and earnestly" to members to attend their branch meetings. It was a matter of regret that Mr. C. W. Macfarlane had not sought reelection to Society's Council. The Executive thanked him for all he had done for his profession as a member of Council.

A meeting of the Scottish Department Executive was held earlier in the day, when the scrutineers' report was received (see C. & D., June 23, p. 535). Messrs. G. A. Jervie and J. Skinner, who had been nominated but had not sought re-election to the Executive, were thanked by THE CHAIRMAN (Mr. W. A. Park) for their past work on the Executive. It was announced that the annual joint dinner of the Scottish Department of the Society, the Scottish Pharmaceutical Federation and the Pharmaceutical Standing Committee (Scotland) would be held on October 17 with the Scottish Pharmaceutical Federation as hosts. THE RESIDENT SECRETARY reported that meetings of the two new branches of the Society were being held at Ayr and Dumfries probably during the week beginning September 24. THE CHAIRMAN re-ported the gift of a prescription book dated 1893-96 from the Galashiels Cooperative Store Co., Ltd.

## Pharmacy Degrees

GLASGOW UNIVERSITY PASS LIST

THE examiners at Glasgow University have made the following awards: Degree of B.Sc. in Pharmacy Final examination, first-class honours, P. D. Barron and I. M. Beswick; second-class honours, E. S. Watson; ordinary degree, G. Calder, J. Cousar, A. G. McDonald, H. McGregor, R. McLay, J. F. MacLeod, J. B. Macklin, A. J. Taylor and M. K. Young.

#### **CONFERENCE BADGE, 1956**



Members of the British Pharmaceutical Conference in Dublin in September will wear the badge shown, Designed by Mrs. McAuliffe, wife of Mr. Phil McAuliffe, M.P.S.I. (both members of conference local subcommittees), the badge depicts a Celtie variation of the classical symbol of pharmacy superimposed on the outline of a Tara brooch. The wand or "tradueeus" of Hermes (messenger of the gods), who laid the foundations of science in Egypt, is especially associated with alchemy, forerunner of chemistry. Wonderful properties are ascribed to the wand, such as putting men to sleep, raising the dead, etc. The "wings" of the wand (optional) symbolise diligence, and the serpent entwined around it symbolises prudence or wisdom. The motto of the Pharmaceutical Society of Ireland, Exacta diligentia, which may be freely translated "With the utmost care," may be regarded as combining the diligence and prudence connoted by the serpent and wand. The badge is reproduced actual size.

#### IRISH NEWS

#### Westmeath Chemists

ANNUAL MEETING OF FEDERATION

THE annual meeting of the Westmeath Pharmaceutical Federation was held in Athlone recently. Mr. B. R. SMITH (secretary, Irish Drug Association) conveyed the regrets of the president of the Pharmaceutical Society of Ireland and the president of the I.D.A., who were unable to be present. Mr. SEAMUS E. Fox (secretary) reported on the work of the Federation since it was reorganised a year ago. The county, he explained, was now divided into two areas, with frequent meetings in Athlone and Mullingar, and general meetings twice yearly. Mr. Fox referred to the new opening hours agreed to by the Athlone members which were working successfully. The dance run in conjunction with the West of Ireland Chemists' Association in aid of the Benevolent Fund had resulted in a cheque for £70 being handed over to the Fund. The meeting unanimously agreed to accept the county manager's offer for the supply

of maternity packs at 14s. each. Dr. T. WINCKWORTH raised the question of the necessity of all pharmacists being members of their local association. agreed that the secretary should write to those pharmacists who were not members. It was decided that the Federation should again join forces with the West of Ireland Chemists' Association for the holding of another dance in aid of the Benevolent Fund on January 2, 1957. Mr. Brendan Smith having addressed the meeting on various matters of interest, the meeting expressed its appreciation of the assistance and cooperation it received from the I.D.A. secretary at all times. The following officers were then unanimously elected for the coming year: Chairman, Mr. H. A. Naylor, Athlone; Vice-chairman, Mr. P. J. Weir, Mullingar; Treasurer, Mr. S. K. Mulholland, Mullingar; Secretary, Mr. Seamus E. Fox, Athlone.

## **Sterilising Techniques**

TRIBUTE TO DEMONSTRATORS

THE final in the series of demonstrations of sterilising technique (see C. & D., June 9, p. 484), conducted throughout Northern Ireland, was held in Belfast on June 21. Although it was the second meeting held in Belfast, approximately a hundred pharmacists attended. A vote of thanks to the lecturers (Messrs. G. E. McIlhagger and J. A. Strahan) and to Professor Biggart (Dean of the Faculty of Medicine) for granting the use of the theatre, was proposed by Mr. C. A. Quinn and seconded by Mr. W. Gorman (secretary, Pharmaceutical Society of Northern Ireland). Mr. A. Templeton (chairman, Local Pharmaceutical Committee) said that the attendance at the demonstrations had far exceeded expectations. Seven demonstrations had been held—at Coleraine, Portadown, Omagh, London-derry, Newry and two in Belfast—and in all over 1,000 pharmacists had attended. He thanked Mr. W. S. Hall (president, Ulster Chemists' Association), the secretary of the Association (Miss A. E. Strachan) and other members who had attended the meetings and helped to arrange them, and the secretaries of the local associations who had made all local arrangements. Northern Ireland pharmacists were indebted to Messrs. McIlhagger and Strahan who had travelled over a thousand miles to bring to them in their own district that informative demonstration. Mr. Strahan, in his capacity at the Royal Victoria Hospital, Belfast, had an air-conditioned room in which to work and at his hand the latest sterilisation equipment, yet he had shown how the retail pharmacist with average equipment could simply and easily dispense prescriptions with full aseptic technique. On behalf of Northern Ireland contractors Mr. Templeton then presented Messrs. McIlhagger and Strahan each with a cheque.

MESSRS. McILHAGGER and STRAHAN
suitably replied. MR. W. S. HALL, on
behalf of the Ulster Chemists' Association, thanked Mr. Templeton who, he
said, was the mainspring of the idea, and whose enthusiasm had kept up the interest and made the demonstrations so successful. That was passed with acclamation.

#### **NEWS IN BRIEF**

An application by Central Scotland Pharmacies, Ltd., for renewal of tenancy of a shop at 35 High Street, Crieff, owned by William Smith (Shoe Merchants), Ltd., Dundee, has been dismissed.

THE Board of Trade is considering an application for drawback of import duty in respect of imported linseed oil. Representations should be addressed to the Board of Trade, Tariff Division, Horse Guards Avenue, London, S.W.1, not later than July 16.

#### SPORT

Car Rally.—BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION on June 17. Thirty-one cars covered the sixty-mile course, starting out at one-minute intervals. En route the occupants were required to identify thirty-seven "clues" and five photographs while maintaining an average speed of twenty miles an hour. Tea was served at Arrowe Park golf house and prizes presented by Mrs. J. C. Wright, Drivers of winning cars were 1, Mr. Atkins; 2, Mr. F. Mackey; 3, Mr. J. Hulse.

Golf.—ABERDARE AND MERTHYR BRANCH, PHARMACEUTICAL SOJIETY, twelfth annual summer meeting held at Aberdare, Glam, on June 14, Winners: Johnson & Johnson silver cup, 1, D. L. Grist, 2, T. H. Little; Aberdare and Merthyr tankard, 1, D. L. Grist, 2, L. Davies; Lederle tankard, 1, W. Nicholas, 2, A. B. Andrews; North Glamorgan silver challenge cup, 1, H. Woodward, 2, A. B. Andrews; Philip Harris silver vase, 1, Miss G. Humphries, 2, T. D. Rees; Ladies' open, medal, 1, Mrs. Edel Davies, 2, Mrs. B. B. Davies; gross, 1, Mrs. Edel Davies, 2, Mrs. G. Humphreys; Ucal tankard, 1, A. B. Andrews, 2, E. R. Thomas; Aberdare and District Cooperative Chemists prize, gents, 1, T. H. Little, 2, E. Hughes; ladies, 1, Mrs. B. B. Davies, 2, Miss Lavinia Williams; Newbery tankard, 1, E. Thompson, 2, W. Llewellyn; Thornton & Ross tankard, 1, Rufus Evans, 2, T. Bayliss; mixed foursomes, 1, Mrs. M. Morgan and Mr. T. Bayliss, 2, Mrs. M. Jones and Mr. 1, Jones, There were also prizes for putting.

IRISH CHEMISTS' GOLFING SOCIETY, annual three-day outing at Rosslare, co, Wexford, recently, Results: SUNDAY (competitions for Imperial Chemical Industries, Ltd., prizes): Eighteen holes strokes: 1, A, A, Cullinane (15), 74; 2, R, D, Arnold (11), 74, Best first nine: F, J, Pierce (17), 38½. Best second nine: C, J, Clancy (14), 34½. Eighteen holes bogey: I, B, R, Smith (9), 2 down; 2, J, J, Power (19), 2 down, Monday: Eighteen holes strokes: 1, P, McAuliffe (14), 69; 2, T, Foley (15), 72; 3, J, Kilmartin (11), 72. Eighteen holes bogey: A, Walsh (9), I up: 2, J, J, Power (17), all square; 3, M, G, Murphy (5), I down, Tuesday: Four-ball y, Bogey: J, T, Foley (13), and E, MacManus (14), 6 up; M, L, Cashman (9) and F, Reen (16), 5 up, Single bogey: J, Gilmartin (10), 1 up; P, G, Garahy (11), all square. Wednesday (captain's day): Eighteen holes strokes: Captain's prize won by F, J, Pierce (17), 73; 2, J, P, Holland (15), 74; 3, R, D, Arnold 11), 75; 4, J, T, Foley (11), 75. Class II: T, J, Lynch (6), 77, Class II: E, MacManus (14), 78; Class III: W, R, Such (23), 81. Eighteen holes bogey: 1, F, Reen (16), 3 down; 2, D, P, McHugh (6), 3 down; 3, J, J, Power (16), 4 down, Foursomes (nine hole): 1, E, W, Massey (12) and P, J, Morgan (15), 31½; 2, S, J, Savage (8) and C, A, Collis (16), 32; 3, M, L, Cashman, 9) and E, MacManus (14), 36½; 4, R, Daly (4) and W, R, Such (23), 37½. At the captain's dinner held on the final day top-table guests included Messrs, P, F, McGrath (president, Pharmaceutical Society of Ireland), A, C, Martin (Imperial Chemical Irdustries), Alderman M, L, Cashman, and Dr, J, D, French (captain, Rosslare club), The vote of thanks to the donors of prizes was proposed by Mr, P, McAuliffe and responded to by Mr, Martin, Mr, C, A, Collis, proposing the toast of "The Captain" complimented Mr, A, F, Hurson on the great success of all the outings since the season had started, and the captain suitably replied.

# TOPICAL REFLECTIONS

By Xrayser

### Unrewarding Toil

In a recent paragraph dealing with the changes proposed for the next edition of the British Pharmacopæia I wrote that there were probably some pharmacists still with us who had grown up with the edition published in 1885. It was with great interest, therefore, that I made the acquaintance of one such through the medium of the account of a career in pharmacy extending over a period of sixty-five years (p. 549). Your veteran contributor had an introduction to pharmacy which, though not uncommon, today sounds almost Dickensian. Much of the hard work undertaken in what was a retail establishment was more suited to the wholesale and manufacturing side of our calling, and the writer is correct in his statement that apprentice labour was cheap. When one thinks of the value of a good practical training today one does not visualise the kind of apprenticeship to which the late Mr. Carlton of Peterborough subjected his young charges. The atmosphere appears to have had something in common with the factory of Murdstone & Grinby where David Copperfield toiled. It argues well for the buoyancy of youth and for the strength of character of the individual that your contributor has survived to the pleasure of retirement and retrospection. His knowledge of vegetable drugs must be extensive and profound, and he was wise to seek retirement at the end of an era. His reminiscences are of historic interest and value, as he belongs to an age that is fast becoming only a legend.

#### Private Recipe Books

The pharmacist of sixty years ago was usually the owner of a privately compiled recipe book. I have recently been looking through such a book dating from the nineties, and its contents corroborate much of the story told by your veterar contributor mentioned above. At the same time, they are an indication of the service the public expected and received from the druggist of that time. From addresses on the cover, it appears that the owner had experience in different parts of the country, and one could wish that he had dated the entries or given their place of origin, for some of the titles are more than likely local names. The collector of recipes appears to have had a varied career and to have handled some extraordinary remedies, including a certain remedy for toothache and sore gums containing considerable quantities of morphine and cocaine. There are several formulas laconically titled "for drunkenness" at a period when that condition was, financially at least, within the reach of the majority. Harness blacking is included, as are a number of veterinary recipes of one kind and another, suggesting a sojourn in a market town at one stage. Detailed directions and calculations make it clear that not only did the druggist use sealing wax, but he also made it himself. A random selection of titles will serve to show the versatility of the pharmacist and the requirements of his customers: Angostura bitters; Danish butter colouring; brown boot polish; battery solution; brandy bitters; cholera tincture; smoker's dentifrice; dog biscuits; egg julep (used as a shampoo); betel nut charcoal; and typhoid mixture.

# A Dispensing Problem

One of the fascinating aspects of the old recipe book is the appearance of drugs which have had their day and disappeared from general use. A neuralgia mixture, for example, contained quinine valerianate, tincture of sumbul, liquid extract of taraxacum and infusion of cascarilla. How many, I wonder, would be able to meet a demand for that prescription today? The appearance of the quinine salt along with cascarilla is not without interest, as at one time there was a confusion between the bark of cinchona and that of cascarilla. For a time in the eighteenth century the latter was prescribed in place of cinchona on account of its cheapness. Its early use in this country was as a flavour and perfume in tobacco, but it later achieved popularity as a tonic and found a place in the London Pharmacopæia of 1746 under the name of Elutheria.

#### IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

DURING a debate on technical education on June 21 SIR DAVID ECCLES (Minister of Education) announced that the following colleges were being designated colleges of advanced technology:—Birmingham College of Technology, Bradford Technical College, Car-diff College of Technology and Commerce, Loughborough College of Technology, The Royal Technical College, Salford, and the Battersea, Chelsea and Northampton Polytechnics, London. MR. R. A. BUTLER (Lord Privy Seal) said that the Government was authorising further buildings to be started in 1957 at an estimated cost of nearly £4,500,000. That sum would be applied to buildings not only for engineering and other technologies, but also for basic science, physics and chemistry.

#### Poliomyelitis Vaccine

MR. R. H. TURTON (Minister of Health) told MR. S. P. VIANT, in a written answer on June 21, that all the poliomyelitis vaccine so far used [under the British vaccination scheme] had been manufactured by Glaxo Laboratories, Ltd.; approximately 333 litres had been issued to local health authorities in England and Wales. Mr. TURTON told Mr. S. S. AWBERY, in a written answer on June 25, that stock of poliomyelitis vaccine was now two litres; approximately 200,000 children in Great Britain would have been vaccinated by the end of June; a further 1,700,000 children had been registered for vaccination and would be given priority when vaccination was resumed in the autumn. He understood that several manufacturers had plans for starting or increasing production of the vaccine

#### Medical Bill

The Medical Bill "to consolidate certain enactments relating to medical practitioners with corrections and improvements made under the Consolidation of Enactments (Procedure) Act, 1949" was read a second time in the House of Lords on June 21.

#### Foodstuffs Colourings

MR. D. HEATHCOAT AMORY (Minister of Agriculture, Fisheries and Food) told Mr. N. N. Dodds on June 25 that the Government had decided to accept the recommendation that only certain specified colours should be permitted in food, and that those should be the colours proposed by the Food Standards Committee (see C. & D., December 31, 1955, p. 732). In a more detailed statement circulated in the Official Report the Minister stated that the Food Standards Committee's list would be reviewed in not more than 5 years' time. Meanwhile the Government would be prepared to consider individual colours for addition to or removal from the list if further information became available; the procedure would be announced later. The Government would arrange for certain colours which traders regarded as important but which on present information the Committee had not been able to include in the list, to be investigated

further as a matter of priority. The Government had decided that specifications of purity should be prescribed for colours on the permitted list. Colour manufacturers and the other interests concerned would be consulted about the arrangements required. Regulations giving effect to those decisions would be made as soon as practicable.

#### Sale of Strychnine

MR. D. HEATHCOAT AMORY (Minister of Agriculture, Fisheries and Food) told MR. R. M. Speir on June 25 that he was looking into the arrangements for authorising the purchase of strychnine for destroying moles to see whether further safeguards were desirable.

#### Prescription Charge in a Hospital

MR. K. ROBINSON asked the Minister of Health on June 25 if he was aware that a member of a teaching hospital staff who cut himself recently with a scalpel while on duty had to pay a prescription charge to his own hospital dispensary for an anti-tetanus injection. MISS P. HORNSBY SMITH (Parliamentary Secretary to the Ministry of Health) said that she thought that the example given was a rare one. She would have thought it qualified for immediate treatment as a casualty.

#### Disposal of Old Medicines

MRS. J. MANN asked the Minister of Health whether he would withdraw the recommendation given to the public to burn tablets and pills when the need for taking them was over, as the adoption of that advice had led to an explosion. MR. R. H. TURTON (Minister of Health). in a written answer on June 25, said that no general recommendation had been made to the public but advice about the disposal of surplus drugs had been given to professional and other organisations on request. He was arranging for that advice to be reviewed.

The Department of Scientific and Industrial Research Bill was read a second time in the House of Commons on June 20.

#### COMPANY NEWS

M. COOK & SON, LTD., manufacturers of fibreboard cases, Hatfield.—Mr. G. W. Parr-Head has been appointed to the board.

ASCOTTS PHARMACIES, LTD.— The board has announced that an offer is being prepared to take over the whole undertaking. Shareholders are advised not to dispose of their shares; the board expects to recommend the offer for acceptance.

LAPORTE INDUSTRIES, LTD. — The statement by the chairman (Mr. L. P. O'Brien) accompanying the accounts for year ended March 31 (C. & D., June 9, p. 489), discloses that half the group's income was derived from its subsidiary, Laporte Chemicals, Ltd. Output of hydrogen peroxide has been increased at the older electrolytic plant at Luton and the new plant at Warrington came into production in the last quarter of the financial year. The company is proceeding with the erection of a large plant to produce peroxide by an autoxidation process which is expected to be in production by the beginning of 1958.

AMBER CHEMICAL INDUSTRIES, LTD.—The company state that negotiations to sell the business carried on at the riverside factory, Cubitt Town Wharf, by its subsidiary have been satisfactorily completed. As a result, a "fundamental improvement" has taken has taken place in the group's position, not only in its net assets but also in its liquidity. Consequently, the accounts at December 31, 1955, would not give a true picture of the situation, and it has been decided not to call the annual meeting before September, by which time the accounts for 1955 and a statement showing the position at June 30, will be circulated. A decision regarding payment of Preferential dividend arrears will be deferred until the complete figures are available.

HOWARDS & SONS, LTD. — The statement by the chairman (Mr. T. W.

Howard) accompanying the accounts for 1955 (C. & D., June 16, p. 515), mentions that group turnover increased by 11 per cent. over that of 1954, home trade was up by 7 per cent. Trading conditions for Howards of Ilford, Ltd., were more difficult than in the previous year as substantial increases in the costs of fuel, transport and raw materials added materially to the manufacturing costs. At the same time, intensive competition made it impossible to raise selling prices correspondingly in most cases. The subsidiary, James Anthony & Co., formed to run a small plantation in Indonesia, has been sold. Group trading profit is £73,371 (£69,110) after charging £80,609 (£53,328) for depreciation.

CIBA, LTD., Basle, Switzerland. — The report on the company's trading during 1955 states that pharmaceutical business again expanded. Most of the increased demand occurring in the American Continent. Competition became more intense due to the rapidly increasing tempo of scientific research and to the establishment of numerous companies, often relatively small, which "only copy preparations developed elsewhere, without research of their own." In some countries protectionist measures impeded the importation of finished medical specialities. The situa-tion requires constant watchfulness, the report says, and can only be met by continuous scientific research. The company's turnover throughout the company's turnover throughout the world was 783 million Swiss francs and expenditure on research, 36.1 millions [£1=12.1 Swiss francs]. In his address to the annual meeting. Dr. R. Käppeli (chairman and managing director) said the preponderance of turnover and earnings of the company had shifted to the field of pharmaceuticals in recent years, although no deliberate preference of allocation of funds for new investments had been made to that section.

BOOTS PURE DRUG CO., LTD.— The statement by the chairman, Mr.

J. P. Savage, accompanying the accounts for the year ending March 31 (C. & D., May 19, p. 406), states that there was some slackening off in trade generally in the last quarter of the year. After provision for tax the group net profit was £2,029,454 (£1,912,142). Capital expenditure amounted to £2,750,000, about two-thirds of which was spent on the retail side of the business in building new shops and extending or modernising existing shops. The rating revaluation has put the company's rates up by over £250,000. During the year eighteen new shops were opened, while eleven other shops were closed. On research the chairman states that the company has just re-housed the research division of antibiotics and fermentation in a new block of specially designed laboratories. Work will shortly begin on the construction of a large new laboratory building in Nottingham for pharmacological and bacteriological research units. The company is making cortisone, hydrocortisone, and deltahydrocortisone without using hard currency intermediates at any stage. staff of the company now totals over 56,000 and it is proposed to repeat a special bonus of one week's wages or salary to all the employees who have been with the company a specified time.

#### **BIRTH**

ELLERY. — At Central Middlesex Hospital on June 4, to Elizabeth Mary Ellery, wife of John Edgar Ellery (sales manager, Fassett & Johnson, Ltd.), a daughter (Carenza Mary).

#### MARRIAGE Golden Wedding

SAMPSON—HOOD. — At St. John the Baptist Church, Bath, on June 20, 1906, John William Sampson, F.P.S., to Dorothy Hood. Present address:—Trehaven, Station Road, Kirton, Boston, Lincs.

#### **DEATHS**

HAMBLIN.—On June 20, Mr. Walter John Hamblin, M.P.S., 42 Longstomps Avenue, Chelmsford, aged seventy-three.

HUNTER. — On June 15, Mrs. Monica Winifred Hunter, S.R.N., wife of Mr. John Hunter, M.P.S., 110 Broad Street, Parkgate, Rotherham, Yorks, aged thirty-seven.

ILLINGWORTH.—At 36 Gibfield Road, Colne, Lancs, on June 22, Mr. John Butler Illingworth, M.P.S., aged fifty-one. Mr. Illingworth was buyer for Hartleys Chemists, Ltd., Nelson, Lancs.

McBRYDE.—At Shirley Park Hotel, Croydon, Surrey, on June 19, Mr. William Ogilvie McBryde, M.P.S., aged seventy-eight.

MERCER.—On June 3, Mr. Ralph Mercer, M.P.S., 162 Tarvin Road, Chester, aged eighty-six.

POWELL. — On May 24, Mr. William John Powell, M.P.S., 118 Carrington Road, Stockport, Ches, aged fifty-nine.

SHARP.—On June 11, Mr. Herbert Russell Sharp, M.P.S., 26 Coombe Road, Brighton, Sussex. Mr. Sharp qualified in 1926. REYNOLDS.—On June 3, Mr. Jesse Meachen Tapp Reynolds, M.P.S., 6



Portrait of Mr. Reynolds published in 1944,

Chambres Road, South port, Lancs, aged seventy-five. Mr. Reynolds was a former territorial general manager of Boots, Ltd., in in Liverpool, Merseyside and the Islc of Man. He was appointed a director of Boots Cash Chemists (Lancashire), Ltd., in 1944.

WILSON.—On June 17, Mr. Thomas Wilson, F.P.S., 3 Links View, Burntisland, Fife, aged eighty-three. Mr. Wilson served his apprenticeship with the late Mr. George Pringle, Burntisland, and was in retail practice in Burntisland for fully fifty years, becoming owner of the business in which he was apprenticed. He retired in 1954. He was very interested in the practical side of pharmacy and in pharmaceutical education, and was appointed to the Pharmaceutical Society's board of examiners for Scotland in 1909, serving almost continuously until 1944. On several occasions he was chairman of the board. He was also an examiner, for a period, for the Pharmaceutical Society of Northern Ireland. Mr. Wilson was one of the last of the old school of Scottish pharmacists who regularly carried out original investigations at the dispensing counter, the results of which were contributed to the evening scientific meetings of the Pharmaceutical Society in Edinburgh. Examples of such investigations were: Coloration in Phenazone Mixtures "The Common Daffodil (Nar-(1909), cissus pseudo-narcissus) as a Poison" (1924) and "Alkaline Citrates and Acetylsalicylic Acid" (1929). Mr. Wilson lectured in pharmaceutics during the first session at which pharmaceutical classes were started in the Heriot-Watt College, Edinburgh, in 1919. He also took an active interest in pharmaceutical politics. He was first chairman of the Edinburgh and South-eastern Scottish Branch of the Society and held office, 1923-25. He continued as a member of committee until 1944 and represented the Branch at several Pharmaceutical Conferences. The funeral took place at Burntisland on June 20, when the Scottish Department was represented by the resident secretary (Dr. D. McCall), and the Edinburgh and Southeastern Scottish Branch by its chairman (Mr. J. B. Grosset) and secretary (Mr. E. Knott).

#### **PERSONALITIES**

MR. L. J. INMAN (London manager, Alexander Carus & Sons, Ltd.), was among the twenty members of the National Savings Movement presented with a certificate and medal for forty years' service on May 31.

DR. CHARLES SINGER (professor emeritus of the history of medicine, London University) was presented at Oxford on June 2 with the Osler medal, which is awarded every five years to the Oxford medical graduate who has made the most valuable contribution to the science, art and literature of medicine. Professor Singer has contributed a number of historical studies to The CHEMIST AND DRUGGIST.

MR. JOHN E. McKEEN, who was guest lecturer of the British Association



of Chemists on June 20 (see p. 569), is president and chairman n of the board of Chas. Pfizer & Co., Inc., New York, U.S.A. Born in New York City on June 4, 1903, he graduated from the Polytechnic Institute of Brooklyn in 1926 with a B.S. degree in chem-

ical engineering. Joining Messrs. Pfizer the day after his graduation, he became associated with the company as a control chemist. In 1935 he was appointed head of one of the manufacturing departments, and became assistant superintendent of the New York plant in 1938. In 1936 and 1937 he spent a year in England on special assignment to assist in the design and construction of a fermentation plant in London. In 1942 Mr. McKeen was appointed superintendent of the company's New York plant, in 1944 to the board of directors, a year later was elected a vice-president, and president (managing director) in September 1949. In December of 1950 he also became chairman of the board, Mr. McKeen has received the Order of Commander of Merit of the Italian Republic; the Order of Vasco Nunez de Balboa from Panama; the Grand Cross and Ribbon of the Order of Honour and Merit of the Cuban Red Cross; the Order of Merit of Bernardo O'Higgins from Chile; the silver medal of the Greek Red Cross; and the French Legion of Honour. He is a member of the board of directors of the World Medical Association.

#### **BUSINESS CHANGES**

MEDO-CHEMICALS, LTD., are removing to 144 Fortess Road, London, N.W.5, on July 2 (telephone: Gulliver 3352).

RIMMEL, LTD., have removed to 146 New Bond Street, London, W.1. The telephone number (Grosvenor 2062) and telegraphic address are unchanged.

#### **Appointments**

ORTHO PHARMACEUTICAL, LTD., High Wycombe, Bucks, have appointed the following to their medical representative staff:—Mr. J. Brown (Western counties of Scotland); Mr. G. Fletcher (Lancashire and the Isle of Man); Mr. R. Weeks (Oxfordshire, Bcrkshire, Gloucestershire and Wiltshire); and Mr. R. Wright (Dorset, Devonshire, Cornwall and Somerset).

## NEW PRODUCTS AND PACKS

For Summer Make-up.—Elizabeth Arden, Ltd., 25 Old Bond Street, London, W.1, are issuing—to meet the fashion for pale lipsticks contrasting with deeper complexion tones—a new lipstick: Summertime.

Soft Curl Set.—
T. L. Benton &
Co., Ltd., 186 Seven
Sisters Road, London, N.7, are marketing a new Chandau speciality:
"soft curl set."
With every display box containing six squeeze - bottle spray containers (three pastel shades) are included entry forms for a hairstyle public competition with 1,000 prizes, including 100 hair dryers.



Cortisone with Antibiotics.—Merck-Sharp & Dohme, Ltd., Hoddesdon, Herts, describe as "a new approach to skin disease" their Hydroderm topical ointment containing hydrocortisone, neomycin sulphate and zinc bacitracin. Hydroderm is issued in 5-gm. and 15-gm. tubes.

Iron with Vitamin C.—John Wyeth & Bro., Ltd., Clifton House, Euston Road, London, N.W.1, have introduced a new speciality Gluferate, a combination of ferrous gluconate and ascorbic acid for use in the treatment of iron-deficiency anæmias. Gluferate tablets are supplied in bottles of thirty and 250.

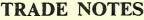
"Pearlescent" Brushes. — Hughes Brushes, Ltd., Slough, Bucks, are marketing in a Windopak presentation a new series of brushes in pearlescent colours and with ventilated backs and

thumb-grip handles. A revolving self-service display stand is sent free with initial order for one of three assorted parcels.

Hair Beauty Specialities.—Henry C. Miner, Ltd., Hook Rise, Surbiton, Surrey, are marketing three new specialities for the hair; Miner's hair lacquer in pink plastic squeeze-bottle and in double-quantity glass refill container; Hi-Lites hair sparkles in gold and silver; and Miner's hair streak, also in gold and silver, for "dramatic streaks" or for tipping odd curls.

Amphetamine and Thyroid Tablets.—The Armour Laboratories (Armour & Co., Ltd.), Hampden Park, Eastbourne, Sussex, are marketing (in bottles of fifty, 100, 500 and 1,000), Thyrophem tablets, each containing dextro-amphetamine sulphate, 5 mgm., and thyroid, B.P., gr.½. The tablets are intended for patients in the mid-forties who find themselves "gently putting on weight and quietly losing mental and physical vigour."

Meprobamate Tranquilliser. — The Lederle Laboratories Division, Cyanamid Products, Ltd., Bush House, London, W.C.1, claim for their meprobamate tranquilliser Miltown, which is being introduced in Britain on July 1, that it has the advantages of being selective in action in anxiety and tension states; has valuable sedative, hypnotic and muscle-relaxing properties; and has negligible side-effects. Miltown is understood to have been proved effective in patients who have failed to respond to barbiturates and other conventional tranquillisers, and to be fully active by mouth. It has given good results in tension headache, alcoholism, behaviour problems in children, hysteria, depression and menstrual stress. Miltown (2 methyl-2-n-propyl-1,3 propanediol dicarbamate) is supplied in bottle of fifty 400-mgm. tablets.



25-Tablet Pack.—Cortril (hydrocortisone-free alcohol) snuff is now available in pack of twenty-five as well as the original pack of five.

Suppliers to Atomic Energy Authority.

—Baird & Tatlock (London), Ltd., 14
St. Cross Street, London, E.C.1, have been appointed suppliers to the United Kingdom Atomic Energy Authority.

Packeted Lozenges.—A range of four packeted lozenges, Vodex lime, cola, blackcurrant and barley-sugar, is issued in display outers containing 1 doz. rolls by Thomas Kerfoot & Co., Ltd., Kersal Vale, Lancs.

Summer "Snaps" Contest. — The weekly periodical *Illustrated* is publishing on July 4 full details and first free entry form for a summer "snaps" contest with cash prizes totalling £500 and £15 15s. for each photograph published.

To Speed Exports. — Carnegies of Welwyn, Ltd., Welwyn Garden City, Herts, are installing Post Office Telex equipment to speed up the company's export business. The Telex number is London 8676; answer-back call "Carnegie Welwyn."

Nalorphine Hydrobromide. — Duncan, Flockhart & Co., Ltd., 104 Holyrood Road, Edinburgh, 8, announce new prices for nalorphine hydrobromide in pack of six 1-mil Hypules, and nalorphine hydrobromide neonatal in 5-mil bottle

Figures Reversed.—J. F. Macfarlan & Co., Ltd., Edinburgh & London, were established in the year 1780 (not 1870 as unfortunately, by a printer's error, appeared on a front-cover announcement by the company on June 23).

An Additional Strength.—Roche Products, Ltd., 15 Manchester Square, London, W.1, have made available their Synkavit water-soluble vitamin-K analogue in a new-strength ampoule: 1 mgm. in 1 c.c. to meet the special requirements of pædiatricians. The pack is a box of six.

Now Tax-free. — The following list of products exempted from purchase tax by a recent Order is additional to a previous list (C. & D., June 23, p. 540): ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2, Proctocaine, a non-



DISPLAY CARTON: For their Trice odourless depilatory (see C. & D., May 19, p. 408) Dae Health Laboratories, Ltd., 17 Berners Street, London, W.1, have produced the display carton illustrated, Trice is nationally advertised.

toxic local anæsthetic containing procaine, 1.5 per cent.; butyl-p-aminobenzoate, 6 per cent.; and benzyl alcohol, 5 per cent. in oily vehicle.

A Circular Corrected.—Abbott Laboratories, Ltd., 3 Wadsworth Road, Perivale, Middlesex, record their regret that, by inadvertence, they erroneously referred, in a recent circular sent out by them, to Liquor Carbonis Detergens, the registered trade mark of Wright Layman & Umney, Ltd., as a sensitising or irritating agent. The error has now been corrected.

"Acid-stable" Penicillin. — Penicillin-V. Lilly, manufactured by Eli Lilly & Co., Ltd., Basingstoke, Hants, is claimed unique in being "acid-stable" and not destroyed by gastric secretions. It is understood to give higher and more prolonged blood levels than any other oral penicillin, and to be therapeutically comparable with parenteral penicillin. The product is available in bottles of twelve, 100, 500 and 1,000 125-mgm. capsules and in bottle of a pleasantly flavoured solution containing 62.5 mgm. in each 5 c.c. (to make 60 c.c.).

Reformulated. — John Wyeth & Brother, Ltd., announce that, following further development work resulting in improved manufacturing methods, they have reformulated Penidural all-purpose and Penidural long-acting injections. Chemists are requested to return all original batches of Penidural all-purpose 1·2 mega-unit vials up to and including batch 78, and of Penidural long-acting, 4-c.c. and 10-c.c. vials, up to and including batch 10. Returned stock is being exchanged immediately for the new pain-free material, and the cost of carriage is being refunded. Stocks should be returned to: John Wyeth & Bro., Ltd., Goods Receiving Department, 25 Oldhill Place, London, N.16.

Oral Vaccine Against Colds.—Available for twelve years by direct mail or recommendation, Oralva oral vaccine

against colds and influenza is now being distributed through ordinary retail channels. The vaccine is prepared by the Pickett-Thomson research laboratory and marketed by Oralva Distributors, Ltd., 175 Piccadilly, London, W.1. It has been formulated with the object of giving the highest degree of protection against the widest range of infections, and includes B. influenza (Pfeiffer); pneumococcus, types I, II and III; haemolytic streptococcus; Streptococcus viridans; and Staphylococcus aureus. Oralva is presented as tablets to be taken as a three-day course (adults: one tablet the first day; two the second; and three the third) for three months' protection.

Closed for Stocktaking.—C. J. Hewlett & Son, Ltd., King George's Avenue, Watford, Herts, are closed for

annual stocktaking during the week commencing July 2. Urgent requirements may be obtained by telephone: Gadebrook 4401.

Peptic Ulcer Treatment.—Sole concessionaires for the United Kingdom for a peptic ulcer treatment that has been successfully marketed in South Africa for more than twenty years are Peptinol (G.B.), Ltd., 80 Elswick Road, Newcastle-on-Tyne. The De-Nol treatment consists of four 6-oz, bottles of medicine, and normally takes 4½–5 weeks to complete. A new technique ("electrostatic tension") in the manufacturing process is claimed to have resulted in increased efficacy of the ingredients and the elimination of unpleasant side-effects. A manual of instructions accompanies each course. The treatment is put forward for the relief

of duodenal, gastric and pyloric ulcers, and of anastomotic or any other type of post-operative ulceration. Most patients are understood to be able (and encouraged) to eat full normal meals within three days of commencing the treatment and to lead a normal existence without the least inconvenience.

#### **Holiday Closing**

NEATEX PRODUCTS, LTD., Wern Mills, Queensferry, North Wales. Factory: Friday evening, July 27, to Tuesday morning, August 14. Office: Friday evening, July 27, until Tuesday morning, August 7.

#### **Bonus Offers**

JAMES COX & Co., South Harrow, Middlesex. DDT flycards. 10 per cent. on order for three gross.

# FROM THE PUBLISHER'S PAGES

Insurance for Chemists.—The Chemists' Mutual Insurance Co., Ltd., 4 Queen Square, London, W.C.1, issue policies covering all business and house risks of pharmacists.

Foreign Proprietaries. — Wilcox, Jozeau & Co., Ltd., 74 White Lion Street, London, N.I, hold stocks of numerous continental proprietary medicinal products.

Diabetic Lime Juice.—L. Rose & Co., Ltd., Grosvenor Road, St. Albans, Herts, are advertising their diabetic lime juice cordial in the *Diabetic Journal* and other medical publications.

Printing for Manufacturers. — The Haycock Press, Ltd., Neate Street, Camberwell, London, S.E.5, printers of the C. & D. Annual Special Issue, offer their services in letterpress and lithographic printing to manufacturers and advertisers.

Pricing and Display. — Plastic price figures ½ in. high, to fit into a base stand, are available from Kennett Price Markers, 55 Eastgate Street, Winchester, Hants.—Glass d.splay cases with chromium fittings are made in various units by Martin Display, 52 Market Street, Watford, Herts.

Cash at the Counter. — The Regna cash register is available in various models to suit individual requirements from the REGNA CASH REGISTER CO., 27 John Adam Street, London, W.C.2. —The Petco till, "the till that makes mistakes obvious," is marketed by A.G.S. & PETRONIC, LTD., Bel Works Estate, Hampton Road West, Hanworth, Middlesex.

Packages and Containers.—FIBRENYLE, LTD., 157 Dukes Road, London, W.3, offer a range of polythene "customer specials" under the brand name Skylon.—A comprehensive range of glass containers for the drug trade is offered (wholesale only) by LAX & SHAW, LTD., 69 South Accommodation Road, Leeds, 10.—NATIONAL GLASS WORKS (YORK), LTD., Fishergate, York, offer prompt delivery of dispensing bottles, ribbed ovals, tablet bottles, etc.

Drug Extracts. —Stafford Allen & Sons, Ltd., Wharf Road, London, N.I, are manufacturers of concentrated, liquid, granular and powdered drug ex-

tracts.—WM. RANSOM & SON, LTD., Hitchin, Herts, are growers of a number of medicinal herbs and manufacturers of extracts, tinctures, essential oils, etc.—T. & H. SMITH, LTD., Blandfield Chemical Works, Edinburgh, 11, manufacture the official preparations of cascara and preparations of jalap, podophyllum and scammony resins.

Manufacturing Services. — Extensive facilities for the development, manufacture and packing of pharmaceutical products are placed at the disposal of the trade by Arthur H. Cox & Co., Ltd., Brighton, Sussex.—H. & T. KIRBY & Co., Ltd., Newman House, Belton Road, Willesden Green, London, N.W.2, specialise in making tablets to manufacturers' own formulas and in the processing of materials.—Prompt delivery of tablets to customers' own formulations is undertaken by G. O. Woodward & Co., Ltd., Larkhall Works, Morrish Road, London, S.W.2.

Photographic Department. — Accredited Agfacolor processing stations are listed on another page by AGFA, LTD., Deer Park Road, Wimbledon, London, S.W.19.—Photographic chemicals are the speciality of JOHNSONS OF HENDON, LTD., London, N.W.4, who also offer a range of accessories for the amateur photographer. — Steadily mounting sales of Ilford FP3 roll and 35-mm. films are reported by ILFORD, LTD., Ilford, London.—Red and grey models of the Ful-Vue camera, as well as the standard black model, are available from Ross ENSIGN, LTD., Clapham Common North Side, London, S.W.4.

Measures Against Insects. — BAKER METAL STOPPER Co., LTD., 1 Adley Street, Birmingham, 18, manufacture an insect-powder bellows in sizes suitable for domestic and commercial users. — DDT flycards in animal and bird shapes are available from JAMES Cox & Co., South Harrow, Middlesex. — Lorexane insect aerosol, ready for immediate use, contains gamma BHC, "the most deadly insecticide"; the manufacturers are IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD., Wilmslow, Ches.—Orders for and inquiries about Kik midge detergent, manufactured by the Geigy organisation, should be sent to Thomas Kerfoot & Co., LTD., Vale of Bardsley, Lancs.

Pharmaceutical Machinery. — A new publication giving answers to problems of filling liquids, emulsions, powders and pastes is available to those who write to Department JD/19, ALBRO FILLERS AND ENGINEERING CO., LTD., Wharf Road, Ponders End, Middlesex. —AUTOPACK, LTD., Caroline Street, Birmingham, 3, offer a range of machines for vial and ampoule filling and sealing; weighing and packaging powdered materials; tableting; bunging; cap-spinning, etc. — Tablet-making machinery, including machines for combined tablet making and compression coating, is the speciality of Manesty Machines, LTD., 5 Evans Road, Speke, Liverpool, 19. — Complete machinery service to the chemical and process industries, including design, procurement, fabricating, expediting, inspecting and erecting, is offered by L. A. MITCHELL, LTD., 37 Peter Street, Manchester, 2.

Sundriesmen. — Distribution stock of chemicals, galenicals, drugs and sundries is offered by Brook, Par-KER & Co., LTD., Bradford.—Daily London deliveries are undertaken by WM. MARTINDALE WHOLESALE, LTD., 14 Bruton Place, London, W.1.—In the Northeast of England, "the recognised house" is Mawson & Proctor Pharmaceuticals, Ltd., Low Friar Lane, Newcastle-on-Tyne, 1.— Orders for cthicals, pharmaceuticals, proprietaries and galenicals are normally met from and galchicals are normally flet from stock by Sangers, Ltd. (depôts at 258 Euston Road, London, N.W.1; 46 Elswick Road, Newcastle; and 45 Wilder Street, Bristol). — R. SUMNER & Co., Ltd., Hanover Street, Liverpool, and Fitzalan Road, Cardiff, take pride in their speedy service as suppliers of drugs, galenicals, dressings, instruments and proprietaries.—A complete service in the supply of drugs, galenicals, surgical and scientific supplies is undertaken by James Woolley, Sons & Co., LTD., Victoria Bridge, Manchester, 3; special facilities in Northern Ireland are made available through Dobbin & Stewart, Ltd., 47 Earl Street, Belfast.

Chemists' Sundries.—Inquiries for the Greba spring-action stainless-steel tweezers should be sent to the Arcfield Optical Manufacturing Co., Ltd., 53 Tottenham Court Road, Lon-

don, W.1.—Steady sales of the Ekco Plastabath and Plastapot are reported by E. C. Cole, Ltd. (plastics division), Southend-on-Sea, Essex.— Quick-sale cabinets of combs, and a range of sunglasses—the Barnet—are supplied through wholesalers by E. R. Holloway, Ltd., Bessemer Road, Welwyn Garden City, Herts.— Kitchen bowls and other household articles in Alkathene brand polythene are being widely advertised in national women's magazines by Imperial Chemical Industries, Ltd., London, S.W.1.—Fashion sun-glasses in variety, the Twinco series, are offered by Jarrett, Rainsford & Laughton, Ltd., Warstock Road, Birmingham, 14.—The Perihel range of ultra-violet and infra-red lamps includes the nationally advertised Actinea "portable sun"; the manufacturers are Perihel, Ltd., 27 Rabbit Row, London, W.8.—The Premo all-rubber bath, nail and complexion brushes are manufactured by Premo Rubber Co., Ltd., Petersfield, Hants.

Products for the Hair.—BIOMETICA. LTD., Park Road, Barnet, Herts, are the sole agents to chemists of Pinaud eau de quinine hair tonic and lilac Vegetal aftershave.—Two Halo "invisible" hair nets are included in the gay envelop produced by the makers, BYARD MANUFAC-TURING Co., LTD., Nottingham.—Vigro hair lotion, for counteracting hair fall, is marketed by D. R. PRODUCTS, 79 Harborne Road, Birmingham, 15.—Linc-o-Lin beer shampoos are available in novel "beer-bottle" cartons of thirty "bottle" sachets through wholesalers; the manufacturers are LINCOLIN HAIR PRODUCTS, LTD., Stratford Road, London, W.8.—For the treatment of dandruff and seborrheic dermatitis, PRIORY LAB-ORATORIES, LTD., Pyramid Works, West Drayton, Middlesex, produce Seboderm cetrimide cream shampoo. — Shadeine hair tints in all natural shades are manufactured by the SHADEINE Co., LTD., 49 Churchfield Road, Acton, London, W.3; the range includes a new golden Shadeine for lightening "mousey" hair. Lion nylon hair nets are available through wholesalers; the manufacturers are ROBERT SHAW & Co., LTD., Ascot Road, Nottingham.—For home use, a 2-oz. size of Nucta cream shampoo is available from STEWART, GOODALL & DUNLOP, LTD., 121A Princes Street, Edinburgh.—Evan Williams shampoos, (manufacturers: Evan WILLIAMS CO., LTD., Aintree Road, Perivale), are nationally advertised.

Counter-sale Products. — Box's indigestion pills, manufactured by W. H. Box, 47 Cobourg Street, Plymouth, retain their popularity after sixty years on the market.—Eade's pills and anodyne ointment are century-old remedies for the relief of rheumatic and neuritic pains; the manufacturers are EADE'S PILLS, LTD., 232 Goswell Road, London, E.C.1.—Pride hair beauty preparations. manufactured by B. N. FURMAN (PRODUCTS), LTD., 133 Fonthill Road, London, N.4, are being nationally advertised.—L260 medicated snuff, available from Hedges (Chemists), LTD., Dale End, Birmingham, is described as "the snuff that made snuff-taking popular"; a tobacco licence is necessary for its sale.—For eye strain, B. HOOPER & CO., LTD., 6 Railway Place,

Fenchurch Street, London, E.C.3, offer Ilox eye lotion in display outer of six bottles.—KAY BROTHERS, LTD., Reddish, Stockport, Ches, have counter-display material available for Kay's linseed compound (in syrup or as pastilles).—Medicinal Norit, a Dutch preparation of pure activated charcoal, is available in display boxes each containing twelve tubes of twenty-five tablets from Macwill & Co., Ltd., 7 West Road, Kingston-on-Thames, Surrey.—A show-card is supplied with orders for six doz. tubes of K.L.M. sunburn cream, a product of D. MAWDSLEY & Co., 64 Faulkner Street, Manchester, 1; a display container accommodates two doz, tubes,
—Neurone "biochemic" tablets are
manufactured by NEW ERA LABORATORIES, LTD., Cecil House, Holborn Viaduct, London, E.C.1.—Thompson's slippery-elm food is available in malted, unmalted and wholemeal malted varieties through wholesalers; the manufac-River Road, Barking, Essex.—J. Robinson & Sons (Bradford), 170, 83
Barkerend Road, Bradford, 3, are the manufacturers of Kurem ointment for skin diseases and Indikura for indigestion.—VIGEL PRODUCTS, LTD., 14 Pepper Street, Nottingham, are the suppliers of Ringer's foot balm, foot powder and foot ease salts, and of Vigel skin and blood purifier.

Medicinal Raw Materials. — The special pride of BIDDLE, SAWYER & Co., LTD., 4 Grafton Street, London, W.1, is that they keep abreast of all modern medical discoveries in meeting the requirements of pharmaceutical manufacturers.—Brome & Schimmer, 7 Leather Market, London, S.E.1, are importers, exporters and millers of botanicals, drugs, culinary herbs, spices, gums, essential oils and waxes.—WM. CHARLES BRUMLEU, LTD., 4 Fenchurch Street, London, E.C.3, offer menthol crystals, peppermint oil, agar, camphor and essential oils.—CARNEGIES OF WELWYN, LTD., Welwyn Garden City, Herts, are manufacturers of a wide range of chemicals.-Essential oils, floral absolutes, chemical isolates and synthetic chemicals are the field of ANTOINE CHIRIS, LTD., Hanover Street, London, W.1.—Representatives for the United Kingdom of the botanical crude drugs produced by V.N.K. United Netherlands Herbocoop, Oostendorp, Holland, are F.A.B. PRODUCE, LTD., 87 Regent Street, London, W.1.—JOSEPH FLACH & SONS, LTD., 140 Falkland Road, London, N.8, specialise in roots, barks, seeds, balsams, gums and herbs. — H. FRISCH-MANN, 62 Fenchurch Street, London, E.C.3, have been importers and exporters of botanical materials, resins, etc., since 1893. — Barbiturates in tons or grains are offered by the GEIGY PHAR-MACEUTICAL Co., LTD., Manchester .-The range of salicylates and allied products offered by GRAESSER SALICYLATES, LTD., Sandycroft, nr. Chester, now includes methyl salicylate.—R. W. GREEFF & Co., LTD., 31 Gresham Street, London, E.C.2, are dealers in pharmaceuticals, drugs, fine chemicals, antibiotics, quinine and quinidine.—Jarvie's quinine 'famous for more than half a ' are manufactured by H. JAR-VIE & Co., LTD., Scotia Chemical Works, Coatbridge, Scotland. — JOHN

KELLYS (LONDON), LTD., 24 Old Broad Street, London, E.C.2, are dealers in botanical crude drugs, essential oils, spices, gums and chemicals.—LAKE & CRUICKSHANK, LTD., 178 High Street, Berkhamsted, Herts, offer a range of alkaloids and salts, hormones, sulphonamides and vitamins.—Bleaching earths and filter aids are the speciality of Production Chemicals (Rochdale), Ltd., 32 Deansgate, Manchester, 3.—A. F. Suter & Co., Ltd., 15 Philpot Lane, London, E.C.3, specialise in shellacs, gums, and waxes.—Magnesium oxides and carbonates are the speciality of the Washington Chemical Co., Ltd., Washington, co. Durham.—Chas. Zimmermann & Co., Ltd., Dega Works, Walmgate Road, Perivale, Middlesex, offer a range of fine chemicals, drugs, essential oils and medical and veterinary specialities.

Medical Specialities.—For hay fever and allergic rhinitis, BAYER PRODUCTS, LTD., Neville House, Kingston-on-Thames, Surrey, produce Neophryn-with-antihistamine nasal spray; export inquiries are dealt with by Winthrop Products, Ltd., at the same address.— BENGER LABORATORIES, LTD., Holmes Chapel, Ches, stress the importance of the pharmacist as a link between prescriber and research scientist.—BENGUE & Co., Ltd., Mount Pleasant, Alperton, Wembley, Middlesex, are the suppliers of Antaiby-Bailly tablets and suppositories for the treatment of essential and symptomatic asthma and other causes of respiratory distress; and of Veltis medicated emollient cream, now supplied in 70-gm. tube.—Complan, the comprchensive food," manufactured by GLAXO LABORATORIES, LTD., Greenford, Middlesex, includes vitamins, essential minerals and other nutrients to a total calorific value of 450 per 100 gm.—Ethical medical specialities available from Philip Harris, Ltd., 144 Edmund Street, Birmingham, include a restorative tonic, an iron treatment for older patients, specialities for relieving bronchial asthma and dyspepsia, and other products.—Rapid relief of symptoms in dyspepsia, with or without peptic ulcer, is promised by C. J. HEWLETT & Son, Ltd., King George's Avenue, Watford, Herts, with their speciality, Bislumina brand bismuth aluminate.—PAINES & BYRNE, Ltd., Pabyrn Laboratories, Greenford, Middlesex, are manufacturers of a number of medical specialities of animal and vegetable origin, including proteolysed liver and rose-hip syrup. — A two-layer tablet, Iso-Bronchisan, available from SILTEN, LTD., Silten House, Hatfield, Herts, is designed so that sublingual absorption of the outer cover (of isopropyl nor-adrenaline) is followed by slower absorption from the alimentary tract of a nucleus of long-acting antihistaminics. -Relief from hay fever is the purpose of Tedral tablets (theophylline, ephedrine and phenobarbitone) manufactured by WM. R. WARNER & CO., LTD., London, W.4.—More than 250,000 oz. of Cremalgin rubefacient balm (methyl nicotinate, glycol salicylate, histamine dihydrochloride, and capsicin) have been prescribed on EC10 forms since the product was introduced in August 1954 by West Pharmaceutical Co., Wood Lane, London, W.12.

## RISE OF THE BIOCHEMICAL ENGINEER

#### Guest lecture to British Association of Chemists in London

THE British Association of Chemists had at its guest speaker at a meeting in London on June 20 MR, JOHN E. Mc-KEEN (president of Chas. Pfizer & Co., Inc., New York, U.S.A.). Many prominent mcmbers of the pharmaceutical, medical and veterinary professions were present by invitation.

#### Mass Handling of Living Cultures

Mr. McKeen's theme was the key function of a new kind of industrial scientist—the biochemical engineer—in recent advances in pharmaceutical manufacture. The mass-handling of living cultures by chemists, he said, began when Weizmann in Manchester introduced the potato-fermentation process for the production of acetone, During the 1914–18 war, when potatoes were in great demand as food in Britain, the manufacture of acetone by that process was undertaken in the United States, using maize instead of potatoes. In a not dissimilar manner penicillin production had crossed the Atlantic in the 1939–45 war.

"In 1941 your country asked mine to apply its resources to the discovery of mass-production methods for penicillin, Scientists and executives of four American pharmaceutical firms gathered with United States Government representatives in New York City to discuss mass-production of penicillin with the British group."

How fantastic had been the speed of growth might be illustrated by figures. In 1941 there was just enough penicillin to permit Lady Mary Florey and her colleagues to treat six patients. In 1945 14,000 lb. of pure penicillin was being produced: ten years later more than 756,000 lb. in America alone.

"The urgent need to save human life produced what was, in fact, a new kind of industrial scientist—part microbiologist, part chemist, part master-mechanic: the biochemical engineer."

It was he who had designed the gigantic fermentation systems. In the years that followed it was the biochemical engineer who had induced other micro-organisms to join the team-

work of industry.

In the analysis and screening of soil samples, whenever an unfamiliar colony

Mr. John E. McKeen, guest speaker of the British Association of Chemists at a meeting in London, on June 20, was host at a reception beforehand. He is seen welcoming Mr. C. S. Garland (a pastpresident of the meeting) who was chairman at

appeared in a culture plate it was picked off and incubated for further study. One such stranger, the actinomycete Streptomyces rimosus, was in full-scale commercial production and in the hands of the doctors within twelve months. S. rimosus was a newcomer to industrial fermentation, and the medium had had to be worked out.

"By 1950, we [Messrs, Pfizer] were using a limited-scale recovery method in which terramycin could be extracted from the fermentation broth by butanol." But the process was uneconomical and wasteful, and too much of the drug was being lost. A young engineer solved the problem. With quaternary ammonium salts he unexpectedly got a precipitate in which the terramycin was present in large quantities, Further steps brought the crystalline antibiotic.

Mr. McKeen thanked Sir Hugh Linstead, M.P., for a recent tribute to the research work of the pharmaceutical industry. The chemical industry in America, said Mr. McKeen, employed approximately 35,000 people in research, against between 6,000 and 7,000 twenty years ago. The industry's kind of research work must be wedded to technology, and no research development could go into production until pharmacologists and clinicians had determined its value. Research workers had succeeded in tagging a broad-spectrum antibiotic with a tracer, and out of that might eventually come a new understanding of the mechanisms of

chemothcrapy. Out of structural studies had come a potent new antibiotic: tetracycline, whose development represented a major advance in pharmaceutical technology—the use of fermentation to accomplish otherwise impossible sequences in chemical synthesis. More recently, the wedding of fermentation with organic synthesis had helped to make steroids such as hydrocortisone and prednisolone relatively inexpensive and widely available.

#### Chemical Engineering Concepts

The drugs of a generation ago, said the speaker, were essentially products of the dye industry and produced by the methods of that industry. Drugs such as the broad-spectrum antibiotics, biologicals and cortical hormones had required new manufacturing techniques and new chemical engineering concepts. Production of those drugs had been responsible for radical innovations within the field of industrial chemistry.

In subsequent discussion, PROFESSOR WOOLDRIDGE (scientific director, Animal Health Trust) warned of a possible competitive element in the simultaneous development of antibiotics as therapeutic agents and as animal feed supplements, and MR. MCKEEN said that that possibility had not been lost sight of by his company.

A vote of thanks to the speaker was proposed by Lady Fleming, widow of the late Sir Alexander Fleming, discoverer of penicillin.

#### DEVELOPMENTS IN THE UNITED STATES

A SYSTEMIC insecticide for applying to seeds has been developed by the American Cyanamid Co., N.Y. The insecticide is Thimet (O, O diethyl S-isopropyl - mercaptomethyl dithrophosphate).

#### New Hormone Synthesised

The synthesis of a new hormone said to be three times as potent as aldosterone is announced by the Upjohn Co., Kalamazoo, Michigan. The new hormone is described as a methyl derivative of fluoro-hydrocortisone acetate. At present the compound has no usefulness in human therapy.

#### Phosphorus Antidote

An effective antidote for a broad class of phosphorus-containing compounds including the nerve gases and some insecticides has been discovered by a team of workers at Columbia University, New York, led by Dr. Irwin B. Wilson. The antidote is known as 2-PAM (2-pyridine aldoxime methiodide).

#### **Drugs for Mental Patients**

At the Battelle Memorial Institute, Columbus, Ohio, and at the Fels Research Institute, Yellow Spring, Ohio, research workers are investigating how a drug affects a patient's mental state and the shapes, sizes, and compositions of chemical molecules most likely to be effective in treating mental illnesses. Workers at the Battelle Institute have

been working on the synthesis of compounds similar to mescaline,

#### Dve Injection Technique

A new dye injection technique for making heart arteries visible in x-rays has been developed by Dr. J. Cannon at the California School of Medicine, Los Angeles, California, A plastic tube is inserted through an artery into the heart. An opaque dye is injected through the tube into heart arteries. A rubber bulb on the end of the tube is inflated to increase pressure in the arteries and thus ensure that the dye is forced through the heart arterial system.

#### New Instruments

An "ouch" meter for testing physical reaction to pain and an "automatic bacteriologist" have been developed by the Upjohn Co., Kalamazoo, Michigan. The "ouch" meter tests an analgesic by giving a heat stimulant to a rat, after administration of the drug. The time that lapses before a physical reaction occurs is recorded. The instant the rat moves its tail, a photo-electric cell automatically stops the timer. A photo-electric device in the "automatic bacteriologist" records on separate graphs the reactions in each culture tube that passes before it. Readings can be taken on each of twenty to 300 stirred cultures at intervals of eight minutes to two hours, depending on the number of tubes under observation.

# ONE OF THE MOST MODERN PHARMACIES IN EUROPE

SOME
IMPRESSIONS
OF THE
MOHLENPRIS
APOTEK,
BERGEN,
NORWAY





The "shop" (above) is not obviously a place of sale. Few products are sold, and none are displayed. A much larger and more important feature of the pharmacy is the store-room, or rather series of store-rooms (left).

THE city of Bergen in Norway boasts what must be one of the most modern pharmacies in Europe. Known as the Mohlenpris Apotek, it is situated in a large building erected by the corporation of Bergen to house light industry. The block was completed during 1955, and the Apotek itself was opened on June 25 in that year.

The writer was able to visit this pharmacy not long after it had been opened. It presents a sharp contrast to anything in Britain. The number of apoteke in Norway is government-controlled, and they are almost exclusively dispensing establishments. Window displays are not allowed, but there would in any case not be a great deal to put in them because, owing to the strict Ministry of Health laws, few proprietary medicines are on sale. It would perhaps be better to compare a Norwegian Apotek with a hospital dispensary in this country.

#### Contemporary Styling

The pharmacy is striking in design, and contemporary styling is evident not only in the design of the building block but in the pharmacy itself, which is well lit, airy, and brightly decorated in contrasting colours. What constitutes the shop part of the pharmacy is decidedly unfamiliar to the English eye. As there are few products for sale, and no displays, it seems austere. Whereas it would be generally admitted that many British pharmacies are "too much shop and too little dispensary," the Norwegian apotek reverses the order of importance. At the Mohlenpris Apotek there are eight members of the staff—two pharmacists; the proprietor, and five

unqualified assistants. Hours of work vary according to whether an employee is qualified or not. A forty-six hour week is worked by unqualified staff, but Norwegian pharmacists work only forty-two hours a week.

#### *Up-to-date Facilities*

The pharmacy is up-to-date in all respects and large by British standards, as the plan shows. There are facilities for the preparation of sterile solutions, and an aseptic cabinet forms an integral part of the internal fittings. There are generous amounts of cupboards, shelves, and floor area, and sections are allocated for different aspects of the work of the pharmacy. That is necessary because a great many galenical preparations are prepared, such as tinctures, syrups, and stock dispensing preparations such as ointments, suppositorics and tablets. At the present time the pharmacy is turning out about 1½ million tablets a year. Where possible, raw materials alone are purchased, and the finished products are made in the pharmacy.

Many English pharmacies could well do with the storage facilities of the Mohlenpris Apotek. There are a fire-proof storeroom, a cold store, a room designed for the storage



Contemporary in design, the dispensary has a spaciousness and orderliness which must arouse the envy of most British pharmacists. The pharmaceutical work is carried out unhurriedly and in comfort.

of acids, and other storerooms for products that require no special conditions. All the storerooms are located as close as possible to the areas in which the materials will be used. There is a well equipped laboratory.

#### Cosmetics Prepared

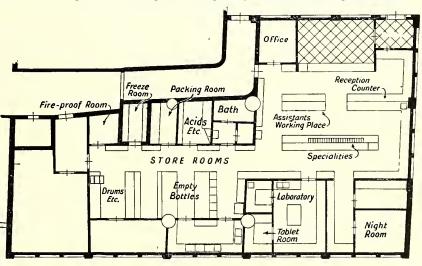
The pharmacy prepares several of its own cosmetic preparations, such as night and vanishing creams and face and hand lotions, though they do not form a large part of its total business. Branded cosmetics are sold by shops such as department stores and photographic goods form no part

of a Norwegian pharmacy's stock in trade. Most of the prescriptions dispensed are private, and paid for by the patients. Only patients who cannot afford to pay are allowed free drugs but certain drugs necessary to life, and which involve continual administration, such as insulin, are provided at the expense of the State. The Norwegian Health Service does, however, allow for free hospital treatment (with free drugs) in Government-run hospitals.

On the top floor of the main building block is a communal canteen—a most striking example of modern design—painted in light blue and rust red. There the pharmacy staff and others working in the building obtain meals at modest prices. Lunch, for example, ranges from 1s. 6d. to 3s. 6d. Access to the canteen is by lift or staircase. Fluorescent lighting is used throughout the building, and that

makes for a well-lit pharmacy during the dark winter months.

The virtual absence of proprietary medicines in Norway is explained by the fact that all products sold must be approved by the Government. The criteria of approval are that the products must be reasonably priced and of proved value, and that only a few other similar products are available. Prescription specialities are similarly scarce. New products are slow to be introduced because of the delay inseparable from their registration. Nevertheless new non-approved drugs may be obtained on prescription.



Plan of the Mohlenpris Apotek.

# THE RED ROOM OF ROYALTY

# A reminiscence of pharmacy on the Cote d'Azur

By Cosmopoliti

T the end of the nineteenth century and up to the time of the 1914 war, at least, it was quite customary for young English pharmacists to take up appointments in Paris and the Riviera, Switzerland and Italy, where fashionable English people spent their holidays and where the principal pharmacies catering for their requirements were glad to engage an English assistant for the season. The pink supplement of THE CHEMIST AND DRUGGIST frequently carried notices of those vacancies and proved a profitable hunting ground for young chemists seeking seasonal employment to gain useful Continental experience.

A reference to Queen Victoria made by "Old Timer" in the C. & D. (January 28, p. 93) reminded me of what I may term the second-hand connection with Her Majesty which I experienced during a season spent on the French Riviera. Queen Victoria visited the Riviera on five different occasions, and stayed at Nice and Cimiez during the winter seasons of 1895–99.

During the last decade of the nineteenth century the pharmacy at which I later worked was owned by an English pharmacist who also held the French qualification. There were several other establishments which catered for English visitors, but the fact that this pharmacy was conducted by an English chemist gave it a distinction all its own. When, soon after the turn of the century, I secured an appointment for the winter season, the shop was conducted by a German apotheker with a French pharmacien in the background.

It was a large shop. The main serving counter, at which the proprietor stood, faced the door, and as customers of all nationalities handed in their prescriptions, they were passed either to the English dispensary on the right, where a qualified Irish colleague and myself dealt with them, or to the Continental side on the left, where an Austrian and a German pharmacist received them. We each served our appropriate customers, also at the counter, when necessary, and from January to April we had a very busy time.

#### A Remarkable Room

A wide corridor lined with storage shelves ran from the shop to a work room and laboratory at the back of the premises, and half way down the corridor a door led into a remarkable room, used in my time as an office. It was because of this room that my connection with Queen Victoria arose. While Her Majesty stayed at Cimiez, two or three miles up in the hills from the sea front at Nice, any medicines required by herself or any member of her entourage were made up for her at the English-owned pharmacy, and the process involved a somewhat elaborate ritual. That, of course, was all a matter of history at the time of my engagement, but the details were fresh in the memory of our "porter-laboratory-technician," a grizzled old Niçois, and he would relate them to successive generations of English assistants, though it is more than probable that the tale gained in picturesque embellishment on repetition.

When a prescription was issued at the Hotel at Cimiez, it was placed by the physician in a special box, which, securely locked, was then carried on horseback by an equerry down to the pharmacy in Nice. There the English pharmacist, immaculately clad in professional frock coat, received the box, for which he held a duplicate key, and carried it into the room at the back of the shop, properly fitted up at that time as a dispensary. There the necessary

medicines were compounded in secret, and locked into the box, which was returned to the custody of the waiting equerry to be conveyed back to Her Majesty's household at Cimiez.

But there were other occasions when goods of a pharmaceutical character had to be dispatched to Cimiez, and the accounts of those journeys furnished our loquacious handyman with the highlights of his story. His chief exhibit at those times was a somewhat faded grey and gold uniform with brass buttons and peaked cap to match which he kept in a hanging cupboard in the laboratory. They were donned by our ancient Mcrcury on those special occasions when, riding his bicycle, he carried another locked receptacle to the royal residence at Cimiez. A proud man he was, apparently, when he set out on those excursions.

#### Preserved Splendour

The office I have referred to was about 15 ft. square, with a small barred window. At the time of my appointment no dispensary fittings remained, but the former decorations had been preserved in all their original splendour. The walls were hung from ceiling to floor with a thick cloth material, caught up to form a dome-shaped tent in the centre of the ceiling. There were one or two comfortable chairs and an office desk, but most of the floor space was left vacant by day, because regularly every evening on closing shop between eight and nine o'clock our attendant trundled into this room a folding iron-framed single bed, within which were packed the necessary mattress, blankets, sheets and pillows. The frame was opened, the bed made up and, surrounded by the faded splendour of the dismantled Victoria dispensary, the assistant on duty for the night was left to get what sleep he could. It fell to the lot of each assistant in turn to take night duty in the pharmacy for a week at a time, about once in every three or four weeks.

There may still be one or two veteran British pharmacists who remember this dormitorial red relic of royalty, but time has wrought its changes, and the pharmacy has long since moved to other quarters. As a result of the 1914–18 war even the name of the street has changed.

#### A PHARMACIST'S ANTHOLOGY

#### **VERDI'S TOOTH-PASTE**

From Son of London, by Thomas Burke.

THE advertisement pages of those old magazines throw sharp sidelights on the byways of social history. Judging from the medical advertisements the chief physicial troubles of that time were rupture, alcoholic excess, anæmia and baldness. Each issue contains many advertisements of remedies for these troubles. George R. Sims' hair-restorer Tatcho and Edwards' Harlene are advertised in almost every number, and many advertisements offer methods of both How To Get Thin and How To Get Fat. Sandow offers his muscle developers and other advertisers offer their Electric Belts for Manly Vigour. One issue has four advertisements of How To Influence Others by Hypnotism and Personal Magnetism; others offer to tell you How to Get Tall and How to Develop a Bust. Solid silver watches are offered at 25s., and complete dinner services, direct from the Five Towns, for one Guinea. Bedroom suites are ten guineas, and Melba's first records, made for the Gramophone Company, and just issued, are offered at one guinea each. The most surprising advertisement perhaps is that of a tooth-paste with a testimonial from Verdi, whose letter is said to have been one of the last he wrote just before his death in 1901.

# Thomas Phaire's

# THE BOKE OF CHYLDREN

By T. D. WHITTET, B.Sc., F.P.S., F.R.I.C., D.B.A.

(Chief pharmacist and lecturer in pharmacy, University College Hospital, London)

The Boke of Chyldren

THOMAS PHAIRE. E. & S. Livingstone, Ltd., 16 Teviot Place, Edinburgh, 1. 7 x 4¼ in. Pp. 76. 7s. 6d.

HE first book on pædiatrics ever written by an Englishman, and one of the earliest medical books to be printed in the English language, has recently been reprinted by E. & S. Livingstonc, Ltd., Edinburgh. Since it contains numerous references to the art of the apothecary, and many interesting prescriptions illustrating the materia medica of the sixteenth century, a review will be of interest to pharmacists. The frequent references to the apothecaries show that, at the time the book was written, over fifty years before the granting of the Royal Charter to the Society of Apothecaries, the apothecary was well established as the compounder and vendor of medicines.

The author, Thomas Phaire, was born about 1510, probably in Norwich, Norfolk, of Flemish stock, and was educated at Oxford and Lincoln's Inn, studying both medicine and the law. He evidently practised both professions, for he wrote books on both subjects and was appointed solicitor in the Court of the Welsh Marches. He was also for several years Member of Parliament for Cardigan. Phaire died at

his home in Pembrokeshire in 1560.

The book is printed in an old-fashioned type, and some of the spelling is strange to modern readers. The word "apothecary" is spelt in four different ways. Throughout the book the symbol "V" is used for "u" or "v" at the start of a word, and the symbol "u" in the middle. The symbol "i" is used for "i" or "j" in all cases. The superscriptions used are a dash to replace an "n" or an "m" following the letter over which it is printed, as in saffro for saffron, and a small "e," "r" or "t" in certain abbreviated words, e.g., "wt" for "with," "ye" for "ye," "yr" for "their" and "yt" for "it" or "that."

As might be expected in a book of that period, many of the remedies seem crude and even revolting to us, but others are still in use today. Among the remedies for increasing the milk of the nursing mother are the following:—

"Pasneppe rotes, and fenelle rotes, sodden in broth of chickens and afterwards eaten with a little fresh butter, maketh encrease of milke within the brestes."

"The powder of earth wormes dried and dronken in the brothe of a neates (ox's) tongue, is a singular experiment for ye same intent."

"Also the broth of an olde cocke, with myntes, cynamome and maces."

"Ryce also sodden in cowes milke, with the crumes of white bread, fennell seede in powder, and a little suger is exceading good."

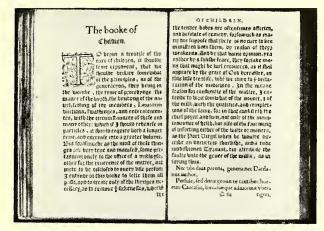
#### A Remedy for Warts

The following ointment is recommended as "an excellent remedy for wartes or knobbes of the head":—

"Take lytarge and whyte lead, of each a like quantitie, brimstone and quicke silver quenched with spyttle, of eche a lesse quantitie, twise as much oile of roses, and a sponeful or two of vinegar, mixe them altogether, on a marble, til they be an oyntment an lay it on the head, and whan it hath been dry an houre or ii. wasshe it of with water, wherein was sodden maioram, sauery and mintes, use it thus twise a daye, mornying and euening, till ye see it hole. This thing is also good in all other kinds of scalles."

Among the remedies for insomnia, described as "of watching out of measure," is the following, which the author attributes to Rasis (A.D. 850-932).

"Annoyt the forehead and teples of the child, with oyle of violets, and vineger, putting a drop or two in the nose thrilles,



Page opening of The Boke of Chyldren

and if ye can gette any syrup of popye, geue it the chylde to licke, and then make a plaister of oyle of saffron, lettuse and the iuice of poppy, or wette cloutes in it, and laye it ouerthwarte the temples."

It is interesting to note the use of the opium poppy in so old a prescription.

#### First Reference to Apothecary

The first reference to the apothecary comes in the following prescription for a "playster" for the treatment of "the Palsey or Shakying of Members." "Take an ouce of waxe, and a dramme of euphorbium, at the potecaries, and temper it with oyle olyue on the fier, and make a serecloth, to comforte the backe bone, and the sinews."

For the treatment of "scabbes and ytch" are several ointments containing sulphur, perhaps a forerunner of the use of sulphur ointment for the eradication of the scabies mite. There is also a soap containing mercurous chloride, probably for the destruction of body lice. Another reference to the apothecary comes in a prescription for "Wormes in the Eares."

"Take mirre, aloes, and the seede of colocinthis, called coloquintida of the apothecaries, a quantity of eche, seeth the in oile of roses, and put a little in the eare. Mirre hath a great vertue to remoue the stenche that is caused in the eares by any putrefactio, and the better with oyle of bitter almonds or ye may take the juice of wormwood with honey and saltpetre."

The following cough mixture is not unlike some of the proprietary medicines in use today:—

"Take gumme arabike, gume dragagant, quince sedes, liquirice and penides (barley sugar), at the apothecaries, break the together, and geue the childe to sup a little at once, wt a draught of milke newly warme, as it cometh fro the cowe."

Another peculiar prescription is that for an "Oyntment for the stomake."

"Take gallia muscata at the pothecaries, xx graine weight, mirre a very litle, make it up in oyntment fourme, with oyle of mastike, and water of roses sufficient, this is a very good ointment for the stomake."

A further prescription from the Arabian physician, Rasis, is included as "an experiment often approved of Rasis for the vomite of children."

"Rasis a solemne practicioner among phisicions, affirmeth that he healed a great multitude of this disease, only with ye practise following, which he taketh to be of great effect i al like case.

First he maketh as it were an electuarye of apothecarye stuffe, that is to saye, lignum aloes, mastike, of euery one half a dramme, galles half a scruple, make a lectuarye with syrupe of roses, and gallia muscata and suger.

Of this he gaue the children to eate a very lytle at once and often. Afterwards he made a plaister thus. R. mastike, aloes, sloes\_galles, frankensence, and brent (burnt) bread, of eche a like porcio, make a plaister with oile of syrupe of roses, to be laid to the childes stomake hole.

The section dealing with the treatment of worm infestations is a strange mixture of superstition and keen observation. Side by side with remarks suggesting the spontaneous generation of the parasites is an accurate description of the signs and symptoms of the condition.

#### " OF WORMES.

There be diuers kindes of wormes in the belly, as long, short, round, flat, and some small as lice, they be all engendred of a crude, grosse, or phlegmatike matter, and neuer of choler nor of melancholy, for all bitter thynges killeth them, and all sweet meates that engendre fleume, nourysheth and feedeth the same. The signes differ according to ye wormes. For in the long and roud, the paciet comonly hath a drie cough, pain in the belly about ye guttes, some tyme yeaxing (hiccoughing) and trebling in ye night, and starte sodainly, and fal a slepe agayne, other whiles they gnashe and grynd their teeth together, the eies wax holowe, with an eygre loke, and haue great delyte in slombrying and silence, verye loth when they are awakened. The pulse is incertayne, and neuer at one staye, sometimes a feuer with a great colde in ye ioyntes, which endureth three or foure houres in the night or day, many haue but small desyre to meate, and when they desyre, they eate very gredelye, which if they lacke at their appetite, they forsake it a great whyle after, the hole body cosumeth and waxeth leane, the face is pale or blewe: sometimes a fluxe, sometimes vomite, and in some the bellye is swollen as stiffe as a tabaret.

The long and brode wormes are known by these signes, that is to say yelownesse or whitishnesse of the eyes, intollerable hunger, great gnawynge and gryppyng in the belly, specially afore meat, water coming out at the mouth, or at the fundament, cotinual ytche and rubbyng of the nose-thrilles, sonken eies and a stinkyng breath, also when the person does his easement there appeareth in the donge litle flat substaunces, muche like the seeds of cucumbes or gourdes.

The other lesse sorte are engendred in the great gutte and may well be knowen by the excedying ytch in the fundament within, and are oftentimes sene commyng out with the excrementes. They be called of phisicios ascarydes.

#### A SINGULAR RECEYTE FOR TO KYLL WORMES

Take of the gall of a bull or oxe, newly kylled, and stampe in it a handfull of cummyne, make a playster of it, and lay it ouer all the belly, remouyng the same euery syxe houres.

Item the gall of a bull with seedes of colocinthis, called coloquintida of the apothecaries, and an handful of baye beries, wel made together in a playster, with a sponeful of strong veneger, is of great effect in the same case. If the chylde be of age or strong complexion, ye may make a few pilles of aloes, and the powder of wormesede, then wynde them in a piece of singing lofe, and annoynte them ouer with a litle butter: and let them be swalowed downe hole without chewyng.

This last prescription is not unlike those in use today—an anthelmintic with a purgative. The dung of various animals appears to have been in common use as an ingredient of local applications as for example in this "plaister for swellyng of the nauyll:—Take cowes donge and seeth it in the milk of the same cowe, and lay it on the griefe. This is also marueylouse effectuall to helpe a sodayn ache of swellyng in the legges." Another unusual ingredient is oil of scorpions included in the following ointment for the treatment of stone.

"Oyle of scorpions, if it may be gotten, is exceding good to annoint withall the members, and the nether parte of the belly, ryght against the bladder, ye may haue it at the apothe-

In contrast to the numerous remedies and polypharmacy recommended in many diseases is the attitude of therapeutic nihilism towards the treatment "of smal pox and measilles."

"The beste and moste sure helpe in this case is not to meddle with anye kynde of medicines, but to let nature worke her operacio,

notwythstandyng if they be slowe in coming out, it shall be good for you to geue ye chyld to drinke sodden milke and saffron, and so kepe hym close and warme, whereby they may the soner issue foorth, but in no case to administer any thyng that myght eyther represse the swelling of the skinne or to coole the heate that is within ve members.

For the treatment of inflammatory skin disease, described as "In Greke herisipelas, and of the Latines sacer ignis, oure Englyshe women call it the fyre of Saint Anthony, or chingles," the following ointment is prescribed:-

"Take at the apothecaries of vnguentum Galeni an ounce and an halfe, oyle of roses two ouces, vnguenti populeon one ouce, the iuice of plantain, and nyghtshade one ounce or more, the whites of thre egges, heat them altogether, and ye shall haue a good ointmet for the same purpose.'

" OF LISE "

and medicine.

The ancient superstitions are again expressed in the section on the treatment of lice infestations.

"Sometimes not onely children but also other ages, are anoied with lice they procede of corrupt humour and are engendred with in the skinne, creeping out a lyne through the pores, which if they begin to swarme in exceeding number, that disease is called of the Grekes Phthiriasis whereof Herode died, as is written in the actes of Apostles: and among the Romaines Scilla, which was a great tirant and many haue been eaten of lice to death, which thing, whe it hapeneth of the plage of god, it is past remedy, but if it procedeth of a natural cause, ye may well cure it by the meanes following....

"Item a herbe at the apothecaries called stauesacre, brimstone, and vinegar, is excedyng good: Stauisacre wt oyle is a marueilouse holsome thing in this case.

#### "AN EXPERT MEDICINE TO DRIVE AWAY LYCE

Take the groudes or dregges of oyle or in lacke of it, freshe swines greace, a sufficien quatitie, wherein ye shal chase an ouce of quicksilver until it be al soke into the greace, the take powder of stauisacre serced (sieved) and mingle all together, make a gyrdyll of a wollen list meet for the middle of the paciet, and al to annoynt it ouer with the sayd medicine, then let him weare it continually next his skinne, for it is a singular remedy to chase away the vermyn. The only odour of quicksilver killeth lyce."

This must be one of the earliest English formulas for a form of mercury ointment. The original "boke" ended with the following words:

"Thus endeth the boke of chyldren, composed by Thomas Phayer, studiouse in Philosophie and Phisicke.

Imprinted at London by Ihon Kingston an Henry Sutton, dwelling in Paules Churchyarde. Anno Domini 1553.

The reprint contains glossaries of terms, of the materia medica and of the ancient authors mentioned. They contain much interesting information and the whole book is well worthy of study by all interested in the history of pharmacy

## THE UNKNOWN PRESCRIBER

By J. J. HAYTON

DID Shakespeare or Marlowe or Bacon Write Shakespeare's (or M's or B's) plays?" The world of the scholar is shaken. The arguments buzz and becraze.

Some people would say it's all sham, And no doubt it has often been stated: "Who cares if its Shakespeare or Lamb? The dramas are what is appreciated!"

But sympathy chemists can find them Those steeped in this problem—because Though Shakespeare (or M&B) signed them They still might have doubts who it was!

Those troubles we know—we have too The doctor who must needs be contacted To ask if he's found something new, Or whether his nib was impacted.

This signature, cause of our frowning, Reads clearly, unless we're mistaken, Lord Tennyson, Shelley, or Browning -Or Shakespeare, or Marlowe, or Bacon!

# CONFERENCE FORETASTE

# Progress made by Dublin hosts in preparations for welcoming guests at ninety-third meeting

RESENT indications are that the ninety-third meeting of the British Pharmaceutical Conference, Dublin, September 3-7, will far exceed in numbers the highly successful Conference held in the City in 1929. The social, sporting and ceremonial aspects of the preparations are well on the way to being finalised, and the Irish Local Committee can now assure delegates and visitors from Great Britain, Commonwealth and Continental countries that their visit to the Irish capital will be memorable and thoroughly enjoyable. The State, the Civic heads, and the tourist organisations are co-operating fully with the Pharmaceutical Society of Ireland to make the coming Conference one of the big events of 1956. In numbers it will be the greatest of the several Conferences held in the City of Dublin this year.

tainment programme. British and Irish pharmacists are being augmented by pharmacists from Australia, New Zealand, Canada, the United States, France, Denmark, Holland, Germany, Switzerland, Spain, the Channel Islands, and Singapore.

An important event in the week's schedule is the Conference excursion to the "Garden of Ireland," to see the beauties of Wicklow county. It is being made in the new C.I.E. (National Transport Company) luxury buses, first to the coast resort of Bray, where lunch is being served. The route from Dublin to Bray is along the lovely Vico Road, skirting Killiney Bay, often spoken of as "the Naples of Ireland." The run from Bray goes through the beautiful Vale of Laragh and into Glendalough of the

#### Conference Holidaymakers

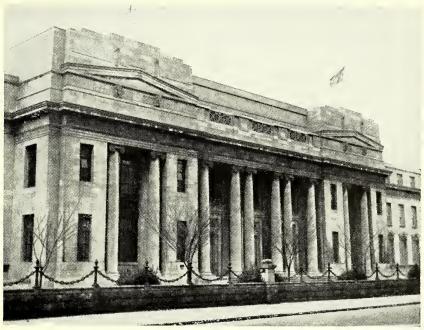
The flood of inquiries to the Conference secretariat in London has been exceptionally heavy, and the demand for literature so great that fresh supplies have had to be asked for and sent by the Dublin Committee. The Irish Tourist Association has also had many inquiries, the nature of which shows that many pharmacists from Britain propose to spend a vacation in Ireland before or after the Conference.

All the activities on the opening day (Monday, September 3) will be centred on the Capital's imposing, broad O'Connell Street. Here, after coffee at the Gresham Hotel, delegates will walk a few minutes up the street to the Ambassador Theatre, for the opening session and inaugural address by the Conference chairman (Professor Kenneth Bullock, M.Sc., Ph.D., F.P.S.). The Government's State reception and dance takes place the same evening in the spacious and lovely Aberdeen Hall of the Gresham Hotel.

University College, just off St. Stephen's Green, with its pleasant ponds and flowered walks, is the

centre at which all the science, professional and symposium sessions are being held. The College is one of the four constituent colleges of the National University of Ireland. Sessions are being held at University College Dublin, or U.C.D., as the College is known locally, on all five days of the Conference meeting.

The high light of Tuesday is the great Conference banquet, which is being held in the Great Hall of University College, and at which anything from 850 to 900 are expected to be seated. No Dublin hotel could provide accommodation for such a large gathering, which will be the biggest banquet function held in the city for years. The top-table guests will include presidents and other distinguished people in pharmacy in Great Britain and Ireland, in addition to Ministers of State and the Lord Mayor of Dublin. Between courses, Irish lady harpists will entertain with traditional Irish music and songs as part of the enter-



Earlsfort Terrace entrance to University College, Dublin, where the science sessions of the Conference, the Banquet and the Conference ball are being held.

Lakes. Tea is being served at Glendalough, after which the drive continues through the Vale of Avoca to view the Meeting of the Waters, of which Tom Moore the Irish poet wrote "There is not in this wide world a valley so sweet." The route from here is through the pretty little village of Enniskerry, nestling in the Wicklow Hills, and on by the big and small Sugar Loaf Mountains, through the "Scalp," back to Dublin. With good weather it should be a splendid day's outing, on which cameras should certainly be taken.

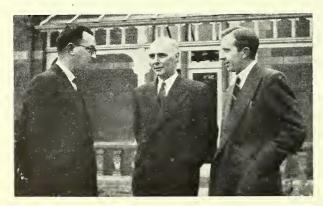
Thursday is essentially "Ladies Day," when pretty dresses and finery may be worn to the garden party at the Zoological Gardens in Phoenix Park. The venue is ideal for such a function, with well laid out grounds and lake within the great Park. While the garden party proceeds, the sporting members of Conference will be taking part in the sports fixtures, including the Edmund White golf



LOCAL CONFERENCE COMMITTEE: Seated, Messrs, Donal J. Kennelly (secretary), Michael Costello (vice-chairman), Patrick F. McGrath, president, Pharmaceutical Society of Ireland (chairman), Mrs. M. Costello (chairman, ladies' committee), Mr. Hugh P. Corrigan (treasurer); standing, Dr. Eoin Dowling (chairman, publicity subcommittee), M. F. Walsh (chairman, luncheon subcommittee), Philip Fahey (secretary, sports subcommittee), Phil MacAuliffe (chairman, transport subcommittee), Malachy Leonard (chairman, hotels subcommittee), Alfred Hurson (chairman, sports subcommittee), and T. B. O'Sullivan (chairman, banquet subcommittee),

trophy competition at the Royal Dublin Golf Club at Dollymount by the sea; the London challenge cup match for bowls at Clontarf, and the Jephcott tennis cup tournament also at Clontarf.

For pharmacists who are keen anglers the Mayo chemists have arranged something special for which valuable prizes given by the Irish Wholesalers and manufacturers are being awarded: a fishing contest on Lough Mask on Sunday, September 9, with sections for trout, perch and pike fishers. The entry fee of 50s. includes dinner (dinner only, 21s.). Any profit that may be made is being given to the Benevolent Fund of the Pharmaceutical Society of Ireland. Anglers are invited to bring their wives, for whom a programme is being arranged by a local ladies' committee. The centre from which all this takes place is Westport, which has excellent hotel accommodation. Entries



The president has a word with Mr. Kevin Banks, left (chairman of the dance committee) and Dr. Richard Timoney (liaison officer on science committee).

close with the Conference Secretary, 18 Shrewsbury Road, Ballsbridge, Dublin, simultaneously with closing date for Conference entries, and as the number of boats is limited early application is requested. Mr. Denis J. Murphy (president, Irish Drug Association), himself a keen angler, can supply any information required during the Conference week.

#### A Cultural Attraction

On the Thursday night a cultural attraction not to be missed is the performance of Sean O'Casey's "Juno and the Paycock" at the Abbey Theatre. The play is one of the finest written around Dublin life, and is presented by the Abbey Theatre players. Application for seats should be made in good time.

The final day is being mainly devoted to science sessions, with buffet tea in the afternoon at University College, and, as a grand round-off to the week, the Conference ball is being held in the Great Hall of U.C.D. Attendance at the ball is expected to run into over 1,000 (the hall takes almost 2,000). The banquet and the ball offer all Irish pharmacists an opportunity of being associated with the Conference and of meeting their cross-Channel professional colleagues.

The ladies' conference committee, of which Mrs. M. Costello is chairman, has arranged an excellent programme of excursions and entertainments while the men are busy at science and business gatherings. The programme includes, in addition to the garden party, a coach tour of Dublin with couriers; tours by coach to Howth Head and the East Coast, the Powerscourt Demesne and gardens in Wicklow; a fashion show and mannequin parade at Arnotts; and a visit to the famous Guinness brewery. Mrs. Costello and her ladies' committee are seeing to it that the lady visitors to the conference will have "never a dull moment."

# DUBLIN'S FAIR CITY

(CONFERENCE VENUE 1956)

## AND THE IRISH COUNTRYSIDE

N design, Dublin City has much the character of a good country mansion: it is comfortable, graceful and spacious, and it looks out upon a delightful countryside.

Like the country mansion the city needs a good host. It has a half-million of them—soft-spoken, laughing people with a Gaelic flair for hospitality!



Custom House, Dublin.

#### Mountains Above Suburban Streets

A salt breeze wafts across the northern quarter of the city; the blue Wicklow Mountains rise lazily above the streets of its southern suburbs and, from the west, the River Liffey enters through a valley of woodlands and meadows, flowing through the city to Dublin Bay (where, incidentally, delicious prawns are caught). The bay forms the city's eastern boundary. Its welcoming, sand-fringed arms stretch between the Hill of Howth and the bracing cross-Channel harbour at Dun Laoghaire.

Whenever I, a Dubliner, start wondering what effect Dublin may have on a new arrival, I invariably recall a peep-show proprietor who travelled the country about forty years ago declaiming in most learned and cultured tones: "On the left, ladies and gentlemen, you see the marble pillars and temples and, on the right, Napoleon crossing the Alps in a small boat!"

Dublin is like that. It is a city where the unexpected always happens—and the inevitable never. It is a Georgian city, built in mellow brick around leafy squares, liberally sprinkled with buildings like the Custom House and the Four Courts which, though not made of marble, are architectural masterpieces nonetheless.

Dublin has facets innumerable. From one angle it is the city of "pubs": old-world establishments where poets and carpenters engage one another in conversational cut-and-thrust across tangy pints of porter, where wit and "the repartee" are the only standard by which a man is measured.

From another it is a city of fabulous shopping for tweeds, lace, haute couture, cut-glass, and cameras, with low prices to give an added zest to every purchase.

Everyone finds the food excellent. Fish dishes, particularly of prawns, lobster, oysters and sole, are specially famous. One can dine on Continental dishes produced by a Cordon Bleu chef and top it with a Gaelic coffee, or one can satisfy a taste for plain, wholesome cooking with thick, juicy steaks, fragrant bacon and cabbage, or home-made bread washed down with tea strong enough for the proverbial mouse to trot on.

#### Sporting Dublin

Then there is sporting Dublin, with four championship golf courses a stone's throw from thrilling salmon and trout waters; swimming, yachting and sea-fishing in the bay; picnicking and rock-climbing in the nearby mountains. For anyone with the energy left, the evenings may be given up to dancing or a visit to one of the famous theatres.

Rambles around the city are well rewarded, for there are many places to visit. Christ Church Cathedral has taken part in the pageant of Dublin's history ever since it was



Church of the Most Holy Trinity, Dublin Castle.



O'Connell Bridge, Dublin.

built by the Christian Vikings, and the Gothic shadows of St. Patrick's Cathedral are alive with poignant memories of its unhappy Dean: Jonathan Swift, author of "Gulliver's Travels." St. Michan's Church has vaults that have the strange property of preserving bodies buried in them.

Dublin Castle dates from 1220, and houses the Heraldic Museum and the Genealogical Office where the Chief Herald traces family trees and issues grants of arms. The National Museum should be visited, if only to see its hoard of prehistoric gold ornaments and fabulous treasures of early Christian craftsmanship. There are three art galleries, covering the principal schools of painting, and in Trinity College is that magnificently illuminated manuscript the Book of Kells, compiled 1,200 years ago.

Parks and gardens are to be found all over the city. Indeed, the 1,760-acre Phoenix Park is the biggest urban park in the world. It contains the Dublin zoo, the people's gardens, and the official home of Ireland's President.

But no matter how determined is the visitor to stay in Dublin, a glimpse of the surrounding countryside has him straining to explore it. Fortunately, to take over one's car from England, Wales or Scotland is a simple business. Equally simple is it to hire a self-drive car cheaply, and arrange to be met by it at the dock or airport. Luxury tours operated by C.I.E. (Coras Iomphir Eireann, the road transport organisation) or G.N.R. (the Great Northern Railway) are excellent value and provide coverage to the most scenic parts of the provinces.

A great sea of pastureland flows from under the Cooley Mountains, spreading out until it laps against the boundaries of Dublin City in the south. On those historic plains are to be seen both the foundations of that palace in which the high kings lived at Tara, a recurrent theme in almost every ancient Irish saga, and the strange Valley of the Dead along the Boyne, whose mounds and spiral-carved stones date back almost 3,000 years. To stand in the burial-chamber of the pagan kings under the man-made hill at Newgrange is to feel—in spite of its modern electric light—

a tingle of eerieness down the spine.

Outside in the sunshine is the Ireland of dreams green hedges and little white roads, thatched cottages by the sea, slender round towers and carved Celtic crosses standing out boldly against the sky. Only a dozen miles' travel south of Dublin on the opposite side brings one to a totally different territory: a great mountain fastness covering 800 sq.



Newgrange Tumulus, View of right-hand recess with stone sarcophagus.



miles of sweeping heather, with dark patches of forest. Glendaloch, in the heart of the mountains, is a ruined monastic city that began with a hermit's search for solitude and grew into one of the most famous universities.

#### "The Real Dublin"

When a visitor to Dublin steps off his train at Westland Row station (i.e., travelling from Holyhead) he may find for his convenient carriage either a luxurious Mercedes-Benz taxi or a horse and cah

So begin the contrasts that will surprise the tourist constantly during his stay in the city. In a few years the horse and cab will have vanished, like so many of the old-world things of Dublin, but it is significant that the disappearance will be slow. There is no immediate hurry to do anything in the dear city. It is a disgrace to gulp a drink, to end a conversation summarily (it must end as if the argument will continue at the next meeting where left off), or even to keep an appointment punctually. There is always tomorrow, if not the next day, and question is always "Why the hurry?"

Until only a short time ago large herds of cattle were driven through the streets from the cattle-market to the docks. Traffic jams? Yes: but no one really minded. Besides, if a cow broke loose, all the people in the vicinity could enjoy the spectacle of a frightened cow charging down a busy thoroughfare with increasing numbers of men and boys taking up the chase. Furthermore, the adventure would be a subject for conversation in the pub later on, and everyone would expatiate on the "correct" way to drive cattle. "Aye, I know your way is the right way," one might say, "but ...", and in that qualification would be latent the evening's entertainment.

At top of page, left: Errigal Monntain, co. Donegal; right: Ross Castle, Killarney. Below, left: Cahirciveen, co. Kerry; right: Cliffs of Moher, co. Clare.





So conversation is the soul of Dublin. It is never merely polite, but always interested. And the public houses are the places to hear it. It is as likely that the poet (who would wish to pose as a farm labourer) will try to talk expertly about farm machinery as the farm labourer (wishing to pose as poet) will talk about the meaning of meaning. Of course, the opinions of each will be right, but. . . .

"Where can I see the 'real' Dublin?" the visitor may ask. Walk along the quays of the river Liffey, peep into the bookshops, stray into the auction rooms, smile at the quaint circular "manzinahurries" (as James Joyce called the public conveniences). Stand in Fitzwilliam Square and experience the tranquillity of the surrounding architecture, walk up Grafton Street and see fashions that Paris might envy, look at the Custom House and compare its beauty with the newer beauty of Europe's finest bus station just beyond it.

It has been said that the clearest English in the world is spoken by Dubliners. That may well be. Suffice it to say that "Dublinese" can be understood. But the visitor may encounter strange words—gowger, jarvey, hard-chaw. He may hear old Dubliners say polisman for policeman.

If our visitor meets with a stranger, he will realise that pleasant ways of speech and manner have not been forgotten. He will recognise a real warmth, gentleness and response.

Having been surfeited with food, kindness, good conversation and the city's loveliness, the visitor will hate to leave the "Irish way of life." His parting gesture to Dublin may be to stand on O'Connell Bridge in the late summer evening and watch an over-red sun sink down behind Guinness's brewery. If he does that he will never forget the shimmering red shafts of light skipping on the rippling surface of the Liffey under the shapely arc of the "Ha'penny bridge."



# THE APOTHECARY'S SHOP AT KIRKSTALL MUSEUM

ISITORS to Kirkstall Abbey House Museum, Leeds. see two old-fashioned "streets," in one of which is the bull's-eye-windowed shop of "Taylor & Mason, Apothecaries."

The shop is the only one of its kind in the country. Mr. C. M. Mitchell (the curator and designer) allows that there is a chemist's shop in the Castle Museum at York, where he was formerly assistant curator, but it has no interior. For that reason it does not give a real glimpse into the shopping ways of former times, as does the apothecary's shop in the Kirkstall Museum.

The shop is small and of no particular period, but many of its contents date from the seventeenth and eighteenth centuries and even earlier.

Outside, hanging near the door of the shop, is a wooden pestle and mortar sign, bearing the title already mentioned. The name has a strong link with Leeds, being the second in a succession which began as Mason's and later became Taylors Drug Co., Ltd., and Timothy Whites & Taylors, Ltd.

The shop boasts two windows of moderate size overlooking a "fold" or narrow passage. On one window sill are blue and plain glass bottles that have seen service in chemists' shops. Facing the window is a set of drawers with painted labels. Above them is a large red carboy, its companion one of the missing links which Mr. Mitchell hopes to secure later. On either side of the carboy are drug jars of various dates. A rare item is a pill tile dated 1778. Beside the slab, which was made by a Wolverhampton firm, is a pill board of later date. Old pharmaceutical books are on a table, and on a shelf above it is a row of seventeenth-century drug jars.

Overhead, facing the shop door, hangs a sturgeon, once the sign of an apothecary. The interior of the shop is panelled in dark wood.

By the door, outside the shop, hangs a framed notice drawing the patient's attention to a cure for "Coughs, Colds, Hooping-Cough, Asthma and Incipient Consumption." Between the two windows is an advertisement for cutlery and surgical appliances. It states that:—

"John Gay, 68, Top Kirkgate, Leeds, returns thanks to his Friends and the Public for their liberal favour and support, and begs leave to inform them that he makes all kinds of Cutlery according to order, that he has on hand a neat and worthwhile Assortment of Cutlery and Surgical Instruments." Further details are added including: "Ladies Backboard Spine Instruments and all kinds of Machines for bodily deformity."

Other framed notices are in the second window, where also are displayed a collection of instruments for teeth extraction, a framed advertisement for soda water, several yellowed packets of mustard leaf and other items.





Above: Pill slab and rounders. Head of page: Interior, At right: A recipe for an analgesic mixture, Below: Surgical and dental instruments of tormer times.





# BRAZILIAN GUARANA

(Paullinia cupana, var. sorbilis)

THE Guaranazeiro from which the substance known in commerce as guarana is obtained is indigenous to the Guianas and to the Amazon and Orinoco watersheds of South America. Its habit is to attach itself as a creeper to trees in the forest (guara-na is Indian for clinging to). When cultivated and regularly pruned it assumes the form of a

small tree with wide-spreading branches.

The best commercial guarana comes from the lower reaches of the Amazon river and is known as Maues. The fruit is much smaller than that of the Rio Negro, or Orinoco. variety, but of better quality, the prepared product containing fewer impurities. It is cultivated in Maues and five other municipalities on the right banks of the Amazon and Madeira rivers, the plantations covering an area of 1,300 acres. On a small scale it is grown also at Manaos and Para (Belem) and at a government experimental station on the ex-Ford rubber estate at Belterra, near Santarem.

The following particulars regarding methods of cultivating guarana are taken from a monograph by D. Edith Ewerton de Almeida, of the Brazilian Ministry of Agriculture: The Indians plant from seed, transplanting when the seedlings are about 18 in. high, Cultivated in that way, the trees are more robust, and live for eighty to ninety years, but only begin bearing after the sixth year. The white settlers, with more extensive plantations, grow from cuttings, buried horizontally. The young plants appear within twenty days and trees begin bearing after the third year, but only live half as long as those grown from seed.

The reddish, or orange-coloured, fruit ripens in October or November in grape-like bunches. It is then the size of a filbert, weighs about 1 gm., and is divided into three cells. each containing a spherical-shaped seed enclosed in a white, farinaceous pellicule. The yield per tree ranges from 2 to 7 lb. of dehusked seed. Trees require little attention other than annual pruning, and appear to be immune from plant disease or insect pests, even from attacks by the ubiquitous

cutting ant, the Atta sexdens.

#### Industrial Preparation

Industrial processes are almost entirely manual. The fruit is gathered in reed baskets, spread out in thin layers in cool, well-ventilated sheds, frequently turned over to minimise fermentation and left to dry during five days. The seeds are

then extracted, roasted in ovens, beaten to remove the pellicules and separated from the latter by primitive blowers.

The roasted seeds may be marketed as such or pounded in wooden mortars and sold as guarana powder, but the bulk of production is made into hard loaves or sticks, both for home consumption and for export. The method is to mix

the powder with water to a paste-like consistency; it is kneaded and rolled into the desired shape and dried, smoked and hardened in well-closed sheds. The walls of the sheds are lined with tier upon tier of shelves on which the moulded paste is stacked in trays. A fire of aromatic, resinous branches is kept smouldering uninterruptedly during thirty to sixty days on the floor of the shed, filling the compartment with a clear, fragrant smoke. The contents of the trays are turned over daily, and the trays themselves moved from shelf to shelf every four to five days, in order to ensure uniform browning and hardening.

Approximately 30 per cent, of the guarana produced in Amazonas is marketed as seed or as powder, syrup, and extract for pharmaceutical use. The remainder is sold in the form of solidified paste. It is exten-



Guarana in sausage-shaped masses as it commonly appears on the market.

sively employed in Brazil to treat intestinal and gastric troubles, as a tonic for the nerves, muscles and heart, and to check arteriosclerosis. It is used throughout the country, too, as a refreshing effervescent drink, replacing coffee in many remote districts. In the form of a porridge it forms the staple breakfast food in the Western States, and in Bolivia and Paraguay. Total consumption is unknown, but must be immense.

Peckolt gives the following analysis of 100 gm. of hard guarana paste:—

Fixed oil, yellow			2.950
Caffeine			
Guarana tannic acid			
Pyro-guarana acid			
Saponin			0.060
Starch			9·350 0·777
Glucose Pectin, dextrin, malic			7.470
Vegetable fibre			49.125
Water			
			. 000

In stabilised or neo-guarana, produced by one laboratory, the medicinal properties of the dried seeds are preserved intact, and the caffeine content is 30 per cent. higher than in the ordinary product.

#### Official Classification

Guarana is classified in two types for exportation.

SEEDS: Type 1.—Healthy, ripe, dry, clean, of uniform size and colour, free of impurities.

Type 2.—As above, but not uniform in size and colour. A maximum of 5 per cent. impurities, made up of pellicules, leaves, etc., is tolerated.

LOAVES OR STICKS: Type 1.—Paste made from triturated seeds, pounded and reduced to powder, moistened with water and dried in the sun or under mild heat, of uniform colour, free of impurities and without flaws.

Type 2.—Paste as above, but with some flaws and with up to a maximum of 5 per cent. impurities.

POWDER: Type 1.—Finely triturated, pounded or ground and free of impurities.

Type 2.—Finely triturated, pounded or ground, with up to 20 per cent. pellicules and 2 per cent. impurities



Seeds of Paullinia cupana after roasting.



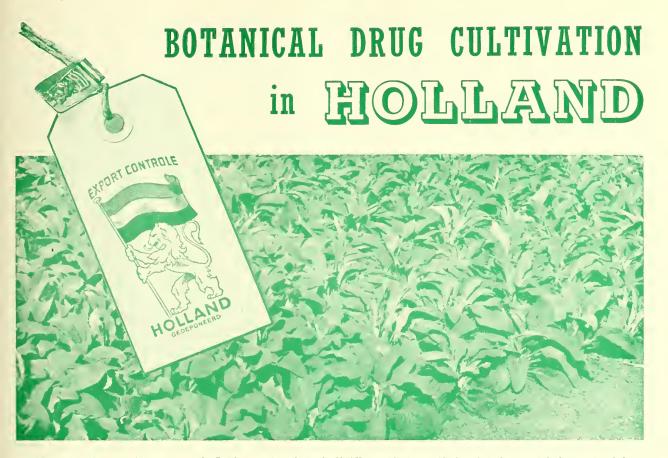
Guarana loaves and sticks must weigh 250, 500, 1,000, 2,000 or 5,000 gm., be wrapped in silk paper, and packed in clean, white boxes of 30 x 30 x 60 centimetres, marked with the origin, type and weight in kilos. The powder may be exported only in bottles, tins or boxes lined with cellulose, or similar, paper. Containers must have capacities of 100, 200 or 500 gm. net weight. Syrups, concentrates and similar medicines and pharmaceutical products must bear labels indicating the percentage of guarana employed in their preparation. In the process of heating in ovens at 100° to 110° C. during two hours, guarana must not lose more than 12 per cent, of its weight. Commercial guarana must contain at least 3 per cent. of caffeine.

#### Production and Exports

The following figures refer exclusively to guarana produced in the State of Amazonas in the form of seed, powder, loaves and sticks. There are no statistics regarding output in other parts of Brazil.

The physical volume of production remained comparatively steady at around 130,000 kilos annually until 1948, but rose gradually to 249,000 in 1953.

Exports increased from 7,473 kilos in 1928 to 99,675 in 1939, dropped to 620 during the war and have since averaged 3,070 kilos annually. The average f.o.b. price has risen from 10s. 3d. per lb. in 1952 to 21s. 7d. in 1954. Germany and Poland were the biggest importers of Brazilian guarana until 1939, but approximately 60 per cent. of the shipments have since then gone to the United States, the remaining 40 per cent. being divided among Western European countries.



Digitalis purpure plants growing on one of the Dutch farms for sale to the V.N.K. organisation. All botanical drugs and herbs are tested by a Government laboratory before being exported and containers carry the seal and label (inset) to show that the contents are up to standard.

IN a country so famous for its agricultural and horticultural achievements as Holland, it would be surprising if crude drugs and medicinal and culinary herbs were not found among the cultivated crops.

Up to the beginning of the 1939-45 war small lots were grown at scattered places and sold on a private basis to users, or dealers. During the war this cultivation ceased but it was revived again on a much larger scale after the cessation of hostilities. Shortage of botanical drugs at that time, and consequent good prices, stimulated the farmers to turn over part of their land to one or more of the crude drugs and herbs. The Government also favoured the establishment of such an industry as a means of providing a more stable export than some of the agricultural products had proved to be in former years. The growing of herbs and drugs was especially stimulated in regions where the small-sized farm (6-10 acres) predominated On such farms labour was generally no problem since the farmers' families were usually large and not fully utilised. At the time this intensification was promoted, Marshall Aid was being dispensed to West European countries and the Netherlands Government used some of its share to build and equip centres to which the farmers could bring their drugs for drying. An organisation of the 1914-18 war period, the Society of Medicinal Herb Gardens, perhaps inspired the present arrangement whereby farmers have joined together to form associations or co-operatives with about 95 per cent. of the growers as members. For practical purposes of collection, drying and distribution of the cultivated drugs, the farmers have divided the country into four sectors (see map) and established a co-operative with its own drying plant in each. They are the Doornspijk Kruiden Coöperatie situated at Oostendorp, Angelica Kruiden Coöperatie at Ommen, Westergeest Kruiden Coöperatie (at Westergeest) and Zuid Nederlandse

Kruidendrogerij at Veghel. The total area growing drugs and herbs in each sector is around 60 hectares (about 150 acres). Given a normal season, that level of cultivation is economic for production, bearing in mind the present demands. If increased quantities should become called for, expansion could easily be carried out. The farmers sell their fresh crops to the local co-operative at previously agreed prices.

Adjoining the Oostendorp plant is the administrative headquarters of the V.N.K. (Verenigde Nederlandse Kruidencooperatie G.A.) to which the co-operatives sell the dried drugs. The board of V.N.K. is constituted from delegates of the co-operative boards. The main function of the company is that of marketing the drugs and herbs, and with it goes the responsibility of planning the acreage that must be sown for each item every season.

An important part of the harvest is sold in advance under contract to the pharmaceutical industry in the United Kingdom and various Continental countries. The contracts therefore form a stable part of the yearly planting scheme.

#### Central Storage Depôt

A large warehouse was built at Oostendorp in 1952 to act as a central storage depôt for all the producers in the four sectors. The warehouse consists of six rooms each 49 x 82 ft. in which the temperature and humidity are carefully controlled to avoid possible deterioration in the drugs before they are required for dispatch.

As in all industries, the ideal is to have a steady flow of work to keep occupied all the machines used as well as all the staff who look after them. But cultivated crops nearly always require to be harvested at around the same time, and consequently there is considerable pressure on the drying machines during late summer and early autumn.

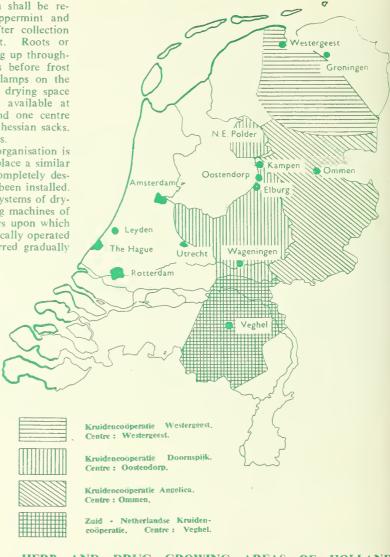
That congestion is largely relieved by careful planning of the order in which various commodities shall be received at the centres. Leaves such as peppermint and digitalis, demanding to be dried directly after collection to retain their colour, are called for first. Roots or rhizomes like valerian and angelica can be dug up throughout the autumn and the first winter months before frost sets in. Sometimes the roots are kept in clamps on the farm to be delivered as required. Even so, drying space surplus to those requirements is at present available at some of the centres in the quiet season, and one centre employs its facilities for washing and drying hessian sacks. thus helping to reduce its overhead expenses.

The latest drying plant to be built by the organisation is that at Ommen. It was opened in 1953 to replace a similar factory only one year old which had been completely destroyed by fire soon after new machinery had been installed. At Ommen as at other centres there are two systems of drying. The first method uses three Schilde drying machines of German origin. Each machine takes ten trays upon which the drugs are spread for drying. The mechanically operated trays are inserted at the top and are transferred gradually

downwards until they reach the bottom of the machine, by which time drying is complete.

The other method of drying utilises a battery of eight hot-air cells. There the drugs or herbs are placed above steam-heated pipes. air being blown over the pipes and through the pile. To conserve fuel, both drying methods are sometimes used for the same batch of material. Where that is done the material is first put into a Schilde machine and transferred to the cells in a half-dried state. Machine drying is quicker than the cells, but the process takes more fuel. Each machine is capable of drying 600 kilos of roots such as rhubarb and valerian in 20 hours. Leaves such as digitalis or peppermint may be dried in 8 hours. whereas in the cells the drying process may take 15 hours.

In both methods the control of the temperature is important to prevent loss of colour or active ingredient content. A very effective washing



#### AND DRUG GROWING AREAS OF HOLLAND HERB



machine, for cleaning the roots before drying, has been devised by the staff. Similar washing and drying equipment are installed at the other drying centres.

Among the chief drugs and herbs grown by the farmers for V.N.K. are:-Valerian root, digitalis species, Chinese rhubarb. lobelia, angelica root, hyoscyamus, belladonna, mint (spearmint and peppermint), rue, lovage root. and culinary herbs and roots such as tarragon, dill, marjoram and horseradish. There are a number of others which are of interest in certain markets only-as. for instance, viola tricolor (pansy herb) which is extensively used in Germany.

As has been mentioned, each district is asked to provide a certain amount of a particular drug in the season. The soil in Holland varies from sand in one



Aerial view of V.N.K.'s headquarters and warehouse at Oostendorp. The drying plant of Kruidencooperatic Doornspijk is on the left.

[Photo: KLM Aerocarto.

district to the heaviest clay in another, and the type of crop selected is one that is expected to yield the best results on the particular soil. The farmers (in Britain the smaller ones might be called market gardeners) grow all kinds of crops and devote only a small part of their land to the growing of drugs. In the fields cabbages may be seen growing next to a plot of angelica or digitalis purpurea. Some farmers specialise in nursery work. On one farm near Deventer, which devotes some ten acres to drug growing, a large number of digitalis plants are raised for sale to other farmers. Seeds of digitalis are sown in cold frames during April. The magnitude of the work involved can be gathered from the fact that about 1,000 plants are reared under each frame and on the farm about 2,500 frames are in use.

#### Land Reclamation

One-fifth of the land area of Holland lies below the average sea level and the fact that it is maintained under cultivation proves that the inhabitants are an industrious people. Large tracts of land have been, and others are still being, reclaimed from the Zuider Zee. For the reclamation, one of the first things done was to construct the big Barrier Dam, connecting the province of North-Holland with Friesland, the dam including shipping locks and twenty-five discharging sluices. At the same time there began the reclamation of the first "polder" (land below sea level), the Wieringermeerpolder, finished in 1930. The draining of the North-eastern-polder began in 1937 and was finished in 1942. In June 1950 a third reclamation (Eastern Flevoland) was begun, which will ultimately have an area of 133,400 acres; the Wieringermeer is 50,000 acres and the North-eastern-polder 120,000 acres. After Eastern Flevoland, two more polders will be reclaimed: Southern Flevoland and Markerwaard, which have areas of 110,000 and 135,000 acres respectively. When all those polders have been reclaimed the arable surface of Holland will have been increased by 10 per cent. The reclaimed land belongs to the Government and is leased to selected applicants in lots of 30 to 120 acres (a number of horticultural farms are about 20 acres). The homes and outhouses, all of modern design, are built by the Government, and competition for the farms is very keen. The soil in the polders is extremely fertile, and is suitable for the cultivation of most drugs. If the farmers require any technical advice on crop rearing, they can obtain it from one of many technical institutes situated in Wageningen.

Wageningen is a small town a few miles from Arnhem and is the centre of the Netherlands Agricultural University. It was at Wageningen that the German forces in Holland capitulated to the Allied forces in 1945. Very heavy fighting occurred in the neighbourhood, and, in consequence, practically the whole town has been rebuilt. The opportunity was taken by the authorities to group within the town all the various research institutes and laboratories connected with agriculture to facilitate close contact between scientific and technical interests.

One institute of particular significance to those growing drugs is the Institute of Horticultural Plant Breeding. It was officially inaugurated about eighteen months ago though it began its activities on a small scale twenty years earlier. The institute works under a board of plant breeders and is supervised by the Ministry of Agriculture and, as its name implies, its general function is to improve the strains of horticultural plants. One of the Institute's divisions carries out research on botanical drugs, creating new strains that give better yields of active constituents or plants less prone to disease.

The Institute also houses the laboratory of the Export Control office, a semi-official body which sees that all drugs offered for export satisfy the requirements laid down in an Order of the Ministry of Agriculture (dated June 16, 1953). The standards mentioned in that statutory order have been established in accordance with the requirements of various foreign pharmacopæias. All drugs for export are tested for (a) moisture content, and (b) sophistication.



Spreading roots on trays of a Schilde drying machine, This method is used when quick drying is required,

In addition, some are also tested for colour; for the thickness of parts of stems, if present; ash content, and active ingredient content (alkaloid, glycoside, essential oil, etc.). If the sample is approved, each bag is sealed by, and carries the label of, the Export Control office. Approval lapses after four months and any consignments not shipped before that time must be retested by the laboratory.

The quantities and values of crude drugs, medicinal and culinary herbs exported from the Netherlands in 1938 and in the years from 1946 to 1954 are given in the table below. The figures for 1955 were not available when this article was prepared, but they are expected to be higher than in the previous years.

year	kilos	guilders
1938 1946	58,000 22,000	36,000
1947	17,000	35,000 36,000
1948 1949	33,000 93,000	59,000 <b>202</b> ,000
1950 1951	311,000 311,000	381,000 421,000
1952 1953	257,000 173,000	385,000 318,000
1954	379,000	750,000

(£1 = 10.6 guilders)



Interior of the Ommen drying plant. Part of the battery of eight hot-air cells is on the right.



After drying, all drugs and herbs are carefully sorted and graded before being packed and weighed,



The drying plant at Westergeest which serves growers in N.E. Holland. The drying facilities liere are similar to those at Ommen.

The proportion of exports which are sent to the United Kingdom is not officially given; a conservative estimate of last year's shipments puts the value at about one-quarter of the total.

#### **Prospects**

What are the future prospects for this recent Dutch export? So far as the United Kingdom is concerned the switch to synthetic chemicals seems almost complete and medicinal herbs used domestically have long since gone out of fashion. Continental countries on the other hand still call for large quantities of both. Many of the crude drugs still required in the United Kingdom for their active ingredient are becoming increasingly difficult to obtain. A judicious expansion of the present range by the Dutch growers may well be possible.

The extra cost of the cultivated crops over uncultivated crops gathered from established sources could be largely mitigated by the introduction of better strains and the guarantee of uniform quality—a goal towards which the organisation is striving.



Under frames such as those illustrated above digitalls plants are reared by the thousand. A farmer who specialises in this nursery work is seen reporting progress on the present year's crop to an executive of the V.N.K. organisation.

#### ECHOES OF THE PAST

#### A ROUTINE FOR GOUT

From Sylva Sylvarum, by Francis Bacon, 1676

EXPERIMENT SOLITARY TOUCHING THE Filum Medicinale THERE be many *Medicines*, which by themselves would do no cure, but perhaps hurt, but being applied in a certain order, one after another, do great cures. I have tried (my self) a Remedy for the Gout, which hath seldom failed, but driven it away in Twenty four hour space: It is first to apply a Pultas, which, vide the Receit, and then a Bath or Fomentation, of which, vide the Receit, and then a plaister, vide the Receit. The Pultas relaxed the Pores, and maketh the humour apt to exhale. The Fomentation calleth forth the Humour by Vapors; but yet in regard of the way made by the *Pultas*, draweth gently; and therefore draweth the Humor out, and doth not draw more to it: For it is a *Gentle Fomentation*, and hath withal a mixture (though very little) of some *Stupefactive*. The *Plaister* is a moderate Astringent Plaister, which repelleth new humor from falling. The Pultas alone would make the part more soft and weak, and apter to take the defluxion and impression of the Humor. The Fomentation alone, if it were too weak, without way made by the *Pultas*, would draw forth little; if too strong, it would draw to the part, as well as draw from it. The Plaister alone would pen the Humor already contained in the part, and so exasperate it, as well as forbid new Humor; therefore they must all be taken in order, as is said: The *Pultas* is to be laid to for two or three hours; the Fomentation for a quarter of an hour, or somewhat better, being used hot, and seven or eight times repeated; the *Plaister* to continue on still, till the part be well confirmed.

His Lordships usual Receipt for the Gout (to which the Sixtieth Experiment hall reference) was this.

To be taken in this order.

- 1. THE POULTICE

  R Of Manchet, about three Ounces, the Crum onely, thin cut; let it be boiled in Milk till it grow to a Pulp; add in the end, a Dram and a half of the Powder of Red Roses.
  - Of Saffron ten Grains.
  - Of Oyl of Roses an Ounce.

    Let it be spred upon a Linnen Cloth, and applied lukewarm, and continued for three hours space.
    - 2. THE BATH OR FOMENTATION.
- R Of Sage Leaves, half a handful.
  - Of the Root of Hemlock sliced, six Drams.
  - Of Briony Roots, half an Ounce.
  - Of the Leaves of Red Roses, two Pugils.



# Cortisone FROM SISAL WASTE

Title picture shows an engineer of East African Sisal Estates, Ltd., Kenya, collecting waste sisal juice for laboratory tests. The juice contains hecogenin, a potential starting material for the synthesis of cortisone. Crude hecogenin concentrate is shipped from East Africa to Britain for processing into pure hecogenin acetate. All the pictures in this article were taken in Kenya, although other East African territories are also concerned in the supply of hecogenin.

HE sisal plant, which is the source of one of the traditional hard fibres used in ropemaking, is now yielding hecogenin in substantial quantities for the manufacture of cortisone and other medical steroids.

The initial research and development work was carried out by the Medical Research Council in collaboration with the East African Industrial Research Board Later, with the financial backing of the (British) National Research Development Corporation, a small-scale plant for the commercial production of hecogenin was set up on a sisal estate at Ruiru, nr. Nairobi (see p. 590). After a valuable period of experimentation with that plant, in which each of the organisations mentioned was concerned, it was taken over by Glaxo Laboratories, Ltd., to become a part of the company's

large-scale research, development and production programme for the manufacture of cortisone.

Three years of experimental work preceded the adoption of hecogenin as a practical commercial product. At first the procedure for extracting hecogenin from sisal was expensive, and not economically feasible on a large scale. However, a major advance came with the discovery that the substance could much more readily and cheaply be obtained, not from the solid matter, but from the juice of the sisal leaf. That juice can be obtained quite easily in large quantities from the waste produced in the operation of removing the sisal fibre from the long spiky leaves.

Work now proceeds in East Africa to improve the hecogenin process to build up its output.





Above, Cut sisal leaves stacked in bundles lie at the end of a row awaiting collection on a Kenya estate.

Left, Cutting sisal. A number of the lower leaves are cut off periodically. Plants go on for many years growing new leaves to replace those cut off, but once the central poles emerge (see p. 591) their useful life is over.

Below, Collecting cut sisal leaves by trailer.

The accompanying pictures were all taken in Kenya, but Tanganyika is also producing hecogenin from sisal along similar lines to Kenya. From the fields of growing plants, which have a life cycle of between eight and ten years, the cut leaves, about one-quarter of those on the plant, are brought either by light railway, tractor or ox-drawn trailer to the factory. First stage is decortication in which the leaves are shredded at high speed and issue at the other end as wet fibre. The residue provides the juice from which hecogenin is prepared. The juice is squeezed out from the leaf residue, allowed to ferment when a sludge forms containing 70–80 per cent. hecogenin. The sludge is treated with







Above: From the fields of growing plants, which have a life cycle of between eight and ten years, the cut leaves, about one-quarter of those on the plant, are brought, either by light railway, as in the illustration, or by tractor or ox-drawn trailer, to the factory, where the first stage of processing is decortication.

Sisal leaves are decorticated on the machine shown at left. The leaves are shredded at high speed, and wet fibre produced. The fibre is dried, either in the open air or in ovens. The residue from the leaf provides the juice from which hecogenin is prepared.

Below: A view of the pilot plant—now being used as a production and development unit—erected by East African Sisal Estates, Ltd., with funds provided by the National Research Development Corporation, and with technical advice from the Medical Research Council and from the East African Industrial Research Board.

sulphuric acid, filtered and dried. The cake is then ready for shipping. Plants go on for many years growing new leaves to replace those cut, but once the central poles emerge their useful life is over.







Top right: Hecogenin is contained in the sludge that separates from sisal Julee after fermentation and treatment with acid. The sludge has to be filtered off. A filter press is shown being examined during experiments.

Right: Kenya sisal plantation. The plants that have produced the poles are at the end of their productive life.

Below: Chopping up various parts of the sisal plant to be used in experiments on the extraction of hecogenin.







# PHARMACIES OF BRITAIN-47



THE ROUND PHARMACY AT ST. MARK'S HILL, SURBITON, SURREY

Circular pharmacies in England are usually found to be of the Regency period. The St. Mark's Hill, Surbiton, pharmacy of Mr. H. T. Shewell is an extremely charming example. The woodwork is painted in black and gold.

# Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed,

### In True Perspective

SIR,—I would like to thank you for publishing, and Mr. Hugh Green for writing about, his Canadian experiences. They are not only extremely interesting, but they enable one to see in true perspective those distant fields which often appear the greenest. Would that other Mr. Greens would write about Australia and New Zealand. A.E.B.

**Excessive Competition** 

Str, — In the article "Sometimes Interesting, Never very Lucrative" (C. & D., June 23, p. 549) occur the following statements:—

The price of "patents" had to conform strictly with the competition, which meant on most a penny an item profit, on some none at all.

I knew of five or six Bristol chemists

who committed suicide.

It would be interesting to know what are the views of the author on resale price maintenance in general, and of the work of the P.A.T.A. in particular. L. S. ADAMS Mitcham

### Source of a Sign

SIR,-My attention has been drawn to a photograph appearing in the current issue of your journal (C. & D., June 23, p. 552). This was of the sign appearing outside the premises of Messrs. Lee at Richmond, Surrey. You state that the wrought ironwork was made at a forge at Walton-on-Thames. We would like to correct this, as the ironwork in question was made at our forge at Walton-on-the-Hill, nr. Tadworth, Surrey.

J. ARTHUR IBBOTSON

Walton Forge

[Our apologies to Mr. Ibbotson for an unintentional and much regretted "forgery" of his masterly craftsmanship.—EDITOR.]

### Franco-British Future

SIR, - Your stimulating report and editorial on the Franco-British Pharmaceutical Congress at Folkestone recently suggest that one of the most effective ways of gathering new ideas and of finding out what visitors to our con-gresses would like to see the Commission undertake is through the correspondence columns of the pharmaceutical Press. Folkestone has shown that there are many ideas which those present would like to explore further, and the Commission will no doubt provide a better opportunity for this at its next meeting. It was also reported to us by one of our lecturers who toured France recently that the French found much of value for their own purposes in the discussion which his paper (on a purely English topic) raised. It would, therefore, be interesting to learn, through the correspondence columns of THE CHE-MIST AND DRUGGIST, what ideas British pharmacists have on future developments. What, for example, are their views on the subjects that should be dealt with by French lecturers during their tours; how far afield should future congresses range, bearing in mind the limiting factors of time and cost; and how should the programme of congresses be built up? The Commission will be meeting in the autumn to consider these among other questions, and suggestions which come to us will certainly be examined at that meeting.

HUGH LINSTEAD, Secretary British Section, Franco-British Pharmaceutical Commission 17 Bloomsbury Square, London, W.C.1

### Asking for Trouble

SIR, - With the emphasis in many chemists' shops during the summer season on the photographic side of the business, window displays of cameras tend to be more numerous. So do reports of smash-and-grab raids on camera windows. Surely the two are interconnected. I marvel at the faith of some of my fellow pharmacists in human nature when they leave expensive nature when they leave expensive cameras and cine apparatus openly on show, even during closing hours, in an ordinary window display without even the safeguard of a metal grille. Jewel-lers are not so "philanthropic" towards the less honest among their fellow creatures. They even clear their windows at night.

CAMERA CONSCIOUS

### A PHARMACIST'S SIGN



5. The pestle and mortar and pendant globe of Mr. Edward Jones, M.P.S., 139 High Street, Gulldford.

### Medical Propaganda

SIR,—Such uncompromising policies as the one advocated by Dr. Brian Abel-Smith at a national meeting of hospital group secretaries (C. & D., June 23, p. 536) would probably, if put into effect, do much more harm than good. If doctors are unable to judge for themselves whether a "glossily advertised" product is really so good as the manufacturer claims there are others who can give disinterested advice. Pharmacists, particularly, are nowadays very knowledgeable on the subject of newly introduced drugs. The right answer, surely, is not to deprive the doctor of necessary information, even if it is presented in a seductive or reiterated way that calls for the exercise of his critical faculties. It is rather to encourage him in every way, and especially by education during his period of training, to develop his powers of discrimination in reading what is put before him. course it is possible that Dr. Abel-Smith is mistaken in thinking that medical practitioners believe everything the manufacturers tell them.

GRAIN OF SALT

### Not So Greatly Changed

SIR,—On the same day as I read the illuminating article by "an obscure chemist and druggist" in your issue of June 23, I was shown a copy of the Evening News and Evening Mail, June 23, 1902, in which were several advertisements for proprietary medicines. What struck me, as a pharmacist of the younger generation who has had the opportunity to see pharmacy conditions at first hand in a dozen countries, was not the great changes which fifty-four years have brought to British pharmacy, but the similarities between then and now. At least three of the medicines advertised are still household words, although the liver pills no longer cost 13½d. Testimonials from relieved sufferers were employed as they are today. Names and addresses of chemists and drug stores where the medicines could be purchased are given, a practice which be purchased are given, a practice which is again on the increase, and surely to be obtainable from "all respectable chemists" is not much different from "at all good chemists" of the present time. Oddly enough, the three casualties: Antidipso, White Ribbon remedy, and Golden specific, were all for the cure of alcoholism. But that change is, a feel due to an enforced solviety as a I feel, due to an enforced sobriety as a result of the actions of the Chancellor of the Exchequer. One wonders what changes the next fifty-four years may bring, but one thing is sure. Unless pharmacists can enforce a higher ethical standard in the advertising of pro-prietary medicines, and a limitation of their distribution to the public by pharmacists only, a career in British phar-macy will continue to remain "sometimes interesting, never very lucrative.

R. MURRAY HOWITT

London, W.2

HOSPITAL PHARMACY F O R U M

### PHARMA OSOPHY

OME months ago this page attempted to stimulate some philosophic reflections on the responsibility of the pharmacist in relation to accidents to patients. At the time the response by way of correspondence was not apparent. Philosophic ruminations lack the trigger-like action in pharmaceutical minds that characterise the mention of salaries, points or out-patient prescriptions. Nevertheless, bread cast upon the waters has returned, though by a different channel. We are gratified to see in "Unanswered Questions" in another journal known to hospital pharmacists a question regarding the division of loyalty as between

the profession and one's employing authority.

It seems a pity that any such conflict of loyalty should arise, but it is not inconceivable. Perhaps it would help if the nature of our employment were reviewed. Presumably a pharmacist is employed so that his knowledge and skill may be available to the patients. His knowledge and skill are expected to be applied with a sense of responsibility based upon its special character; that is, in accordance with professional ethical procedure. This surely means that where the conditions of employment prevent the proper discharge of professional duties, it is the pharmacist's plain duty to make this known and to seek a remedy. For example, in the matter of the care of poisons, if the law is not observed, or if, even within the law, a danger is apparent, it would be failing both the employing authority and the profession if the pharmacist did not seek a remedy. Likewise, if the service to the public is hindered or endangered by lack of satisfactory facilities or by unreasonable rulings by the administrative body of the hospital, a pharmacist must make his protest. The professional organisation in our case is

aptly named "the Society," and it exists, inter alia, to protect the professional standing of the pharmacist in just such circumstances. In doing so it serves the public well: indeed that is recognised in the powers given by its Royal Charter.

The question becomes a little more difficult if the professional body, in the course of its "protection of the interests of its members" collectively attempts to institute methods of coercion. The question may be regarded as academic since neither the Society nor the Guild has ever attempted to exert political pressure in the way that a trade union does. Nevertheless such a course could, in certain circumstances (other remedies having failed), conceivably be justified. The Guild at one time contemplated asking its members to cease dispensing for out-patients as a protest against the low salary scales. The success of such an action would depend upon the degree of support forthcoming from the members, and that would clearly be in proportion to the strength of principle among them. As matters are now developing it seems unlikely that such action will be necessary because out-patient dispensing is being sent out of the hospitals through lack of staff. It seems that many pharmacists have decided that they can practise their profession best outside the hospital service. The question of loyalty has been decided largely on a cash basis. For those who remain, and for those who believe that the Ministry of Health is failing the public by allowing the pharmaceutical service to deteriorate in this way, it is surely a matter of professional conscience to try to have a remedy applied. It would be an odd sense of loyalty in such circumstances that was content to accept unchallenged the rulings of the administration and to disregard the appeal of the professional organisation.

### Onward from Galen A CURRENT CAUSERIE

THE inscriptions on two of the drug jars illustrated on p. 612 serve as a reminder that from 1650 until 1721 the two formulas for pill cochia in the London Pharmacopæia were entitled pilulæ cochiæ minores and pilulæ cochiæ majores. The latter is said to have been originated by the Arabian physician Rhazes; the former has been ascribed to Galen. The title of the lesser cochia pills was changed in the 1746 edition to pilulæ coloc, cum aloe, the greater cochia pills being deleted. The principal ingredient of the greater cochia pills was hiera picra or "holy bitter." Their modern equivalent is compound colocynth pills. For red drying ointment, another galenical mentioned, a recipe given by Culpeper, is as follows:

Take of Oyl of Roses omphacine a pound, white wax five ounces; which being melted and put in a leaden morter, put in Earth of Lemnos, or Bole Armenick, Lapis Calaminaris, of each four ounces, Litharge of Gold, Ceruss, of each three ounces, Camphire one dram, make it into an oyntment according to art. A definition of "omphacine" is given in the Shorter Oxford Dictionary but it is a little difficult to apply. It is "made of unripe grapes, olives, etc." On the assumption that the operative word is "unripe," and "etc." embraces roses, "oyl of roses omphacine" would appear to be an oil expressed from rosebuds.

ONE does not know whether to be more impressed with the similarities between pharmacy in Japan and in Britain or by its differences. On the one hand the Railway Pharmaceutical Society of Japan, at its fourth general meeting at Kyushu University Medical College recently, heard several papers dealing with such subjects as special research work on the nutritive and hygienic qualities of railway station lunches, and the examination of air pollution by locomotive soot. On the other hand the separation of pharmacy from medicine,

subject of many heated discussions during the past few years in Japan, and only achieved in this country in 1948, came into effect in Japan on April 1. Mr. Kazuo Takano (president of the Japan Pharmaceutical Association) stated that pharmacists had now attained their long-cherished desire, but the method of separation differed considerably from what they considered ideal. Pharmacists were now entering an uncultivated country and should strive to revise the method to bring it more in line with their ideal. There is a Japanese Pharmacopæia, and also a Japanese National Formulary, but apparently they are far from having the status of similar works in Britain, for Mr. Akira Ogata (president of the National Pharmacy Board) is actively engaged in promoting the formation of a Japan Official Compendium Association, designed to promote the diffusion of the Pharmacopæia and the Formulary; to contribute towards improving the quality of drugs; and to carry out research.

### FIFTY YEARS AGO CHEMISTS' HOURS OF WORK

From the C. & D., June 30, 1906.

Why a chemist should be practically the latest shop to close I cannot conceive. The chemist's business, especially when one has dispensing and counter work to do, requires a man's faculties and energies to be at their very brightest. If a man is engaged from eleven to fourteen hours a day this is impossible, and he becomes even a danger to the public. In regard to many places, Sunday and night duty are necessary in these cases they ought to be paid for extra, or time off allowed. Sunday in many suburban chemists is looked upon as an ordinary day: all blinds are up and all lights lit. This is far from dignified, to say the least of it, and puts us on a level with confectioners and tobacconists. Salary or pay for the time worked is very much lower than it ought to be ... it works out much lower than a bricklayer or a stevedore.



The creation of a pharmaceutical industry to serve a nation is a major undertaking which no country had attempted until Burma decided she must have her own. To the British pharmaceutical company commissioned to translate the project into bricks and mortar, plant, machinery, workers and output the challenge was of another kind—to its courage, foresight, organising ability and drive. The measure in which those qualities have been forthcoming is proved by the company's being ahead of the timetable it was set to keep.

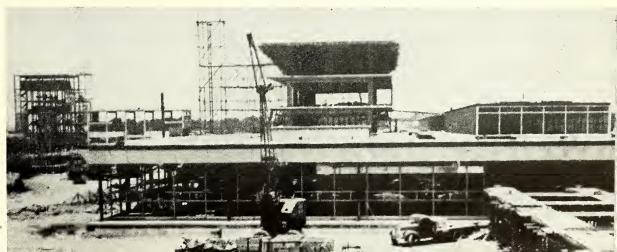
HIS DAY WILL GO DOWN in the history of Burma as one of the most important red letter days, because on this site in less than three years from now we would be producing almost the whole of our medical needs of biologicals, pharmaceuticals and vitamins."

With these words the Prime Minister of Burma (U Nu) laid the foundation stone of the Burma Pharmaceutical Industry in April 1954, a mere six months after the Government of the Union of Burma had signed an agreement with Evans Medical Supplies, Ltd., to give shape to an inspired ideal. Production commenced in June 1955 and by May 1956 about 100 products were being handled. The steps by which those achievements have been accomplished is a fascinating story.

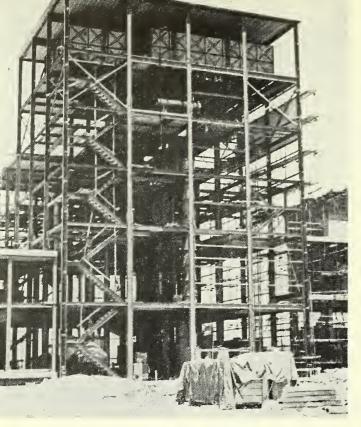
Health was one of the key points in an eight-year development plan adopted by the Burmese Government in 1953. In order to raise the standard of health of the 17¼ million Burmans, the country needed a wide range of essential medicines and vitamins. To meet that need, the Burmese conceived the idea of having their own pharmaceutical industry, with local manufacture by Burmese labour and capital. A Government Mission was sent to Europe in June 1953, charged to make arrangements for the project.

After several months' negotiation, the Mission concluded, in October 1953, an agreement with Evans Medical Sup-

ain production build; from south, show; mezzanine almost
mplete and drug
nding tower well
deter way. In left
ckground are alcohol
wer and yeast factory.



June 30, 1956



Alcohol tower in course of construction.

plies, Ltd., under which Messrs. Evans would:-

- 1. Advise on the selection of architects and consulting engineers.
  - 2. Plan the layout of the various buildings.
- 3. Determine and procure all necessary machinery, plant and equipment.
- 4. Make available all the necessary scientific knowledge to enable the factories and laboratories to produce a wide range of medicinal products.
  - 5. Provide technical staff to operate the plant.
- 6. Train Burmese nationals to take over from non-Burmese personnel as soon as possible.
- 7. Manage the Burma Pharmaceutical Industry (as it was to be called) for an initial period of seven years.

Messrs. James Cubitt & Partners, London, were appointed architects; Messrs. Donald Rudd & Partners consulting engineers for steam, electricity and air conditioning; Messrs. Bolton, Henessey & Partners civil engineering consultants; and Mr. W. F. Tillyard quantity surveyor.

The selection of a site presented many difficulties, but early in 1954 a level site of 42 acres, about eight miles north

of Rangoon and close to the Hlaing River was chosen. Despite the advantages of the site, there were difficult subsoil conditions which created special problems in foundations, and allowances had to be made for settling over a period of years.

A Burmese firm undertook the preliminary site works, and made rapid progress with the drainage and excavations, enabling the main building operations to be started in the autumn of 1954. Meanwhile a special department at the Speke headquarters of Evans Medical Supplies, Ltd., tackled the many problems the project posed. An investigation was undertaken to determine the probable requirements of the Burmese nation, having regard to parallel plans by which the Government was developing the country's health services. From the information gathered, an outline plan of the laboratories and factories proposed was submitted to the Burmese Government. The decision was reached that the Burma Pharmaceutical Industry should comprise:—

1. A main pharmaceutical production building embracing raw material stores, drug-grinding mill, galenical manufacture, tablet manufacture, filling departments, sterile-products laboratories, and quality-control laboratories.

2. A biological institute for the preparation of sera and vaccines against smallpox, tetanus, diphtheria, gas-gangrene, typhoid, cholera, rabies, and others.

3. An animal farm to provide animals both for serum production and laboratory testing.

4. A distillery to produce 2,500 gall, of industrial or medicinal alcohol per day from broken rice.

5. A yeast plant to provide half a ton of dry medicinal yeast per day for the manufacture of vitamin tablets.

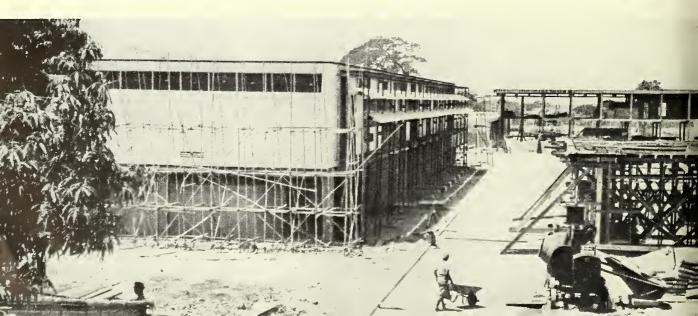
6. Ancillary buildings comprising offices, engineering workshops, canteen, laundry, sewage-disposal installations, boiler-house, electricity generator station, effluent-discharge plant, water wells and pumping station, and rice stores.

A.P.V., Ltd., London, were awarded the contract for the machinery and equipment for the alcohol distillery. The same company is erecting the yeast plant. The processes for yeast manufacture are being provided by Fermzymetera, S.A., Luxembourg.

### Plant and Equipment

Implementing the outline scheme necessitated many months' intensive planning, and the 6,500 miles separating the site from the large number of technical experts involved did not make matters easy. Detailed lists of plant and equipment were prepared, and orders were placed so that delivery on site would coincide, so far as possible, with the progress of the buildings.

Parallel with that work the architects and consultants had to be briefed with the technical requirements, and the planning had to take care of many difficult problems in design. On the one hand maximum operating flexibility



June 30, 1956

was required; on the other a high degree of controlled ventilation was essential in the tropical humid climate experienced in Burma. To date, nearly 2,000 drawings have been made.

The main building is 620 ft, x 210 ft, in area. It has a central service corridor with the production departments on one side and the storage and dispatch sections on the other. A mezzanine floor above the service corridor houses the quality-control laboratories. Towering above this building is a drug-grinding tower. In all, the buildings will provide about 400,000 sq. ft. of working floor space.

The main building contract was awarded to a British company: Holland & Hannen & Cubitts, Ltd., who were able, as already stated, to begin building in the autumn of 1954. They made extensive use of pre-fabricated building elements to overcome the scarcity of local skilled labour. From the start, priority was given to the early completion of a temporary production unit, to enable some of the urgent needs of the Burmese Army and Health Service to be met as quickly as possible. Part of the stores side of the main building was designated for that purpose. It was completed in advance of the rest of the structure, and equipment for the manufacture of galenicals and tablets was temporarily installed there, together with control laboratories. The operation of the unit is providing valuable experience of actual working conditions in Burma and has enabled any minor adjustments to be made in the planning of the main production departments. The temporary production unit is also enabling Burmese operatives to be trained in readiness for full-scale operations.

### Training of Personnel

Under the terms of the agreement Messrs. Evans are training suitable Burmans in the company's Merseyside establishments. A number of trainees have already returned. to Rangoon, and others are going back when there is work for them to do there. The absence of any pharmaceutical qualification in Burma led to an agreement whereby four Burmese State Scholars, all graduates of Rangoon University, are now studying pharmacy in this country. After practical training at Speke they will take up posts in the Burma Pharmaceutical Industry. Senior technical and administrative staffs have been provided by Messrs. Evans, partly from within the company and partly by outside recruitment. Several of them, led by the general manager (Mr. R. W. Oxtoby) are already working in Rangoon.

### A Key Industry

The importance attached to the project by the Burmese Government was demonstrated when the temporary production unit was officially opened in January 1956. The opening speech was made by the Hon'ble Thakin Chit Maung (Minister for Public Works and chairman of the Special Projects Implementing Board) who stressed that the Burma Pharmaceutical Industry was a key industry for the country. The ceremony of "cutting the tape" was performed by the Hon'ble Saw Aung Pa (Minister for Health), who said "We are setting up this industry not because we can afford it, but because we cannot afford to do without it."

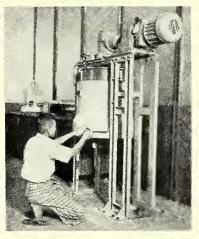
Mr. Ian Fergusson (chairman and managing director of Evans Medical Supplies, Ltd.) flew to Rangoon for the ceremony. In the course of his speech he said "In helping you to make pharmaceuticals we are helping you to relieve pain, to reduce disease, to cure it when it occurs, and to add to human happiness. I like to feel that at the end of the day my company will have created an enduring contribution to Anglo-Burmese friendship, a contribution that will endure for all time."

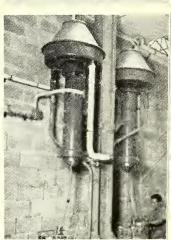
Top right: Control laboratory, Second row: An operative with a comminutor; office workers. Third row: An operative with a drum roller; water stills. Foot of column: A worker in the tinctures section. At left: At work on administrative block; in background, biological laboratories. Titlepiece of article shows construction in progress in the west side of the main building; concrete columns support the drug-grinding tower.

















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### Information, Interest and Entertainment

In public libraries of not too great a size books on a number of subjects may appear in the same bay or section, sign-posted with, for example, the legend "History, Biography, Travel, etc."

Such a heading, allowing for items of importance within the "etc.", could well be used for the present issue of The Chemist and Druggist. History is represented by a number of articles. Outstanding, perhaps, is an authoritative contribution by Dr. T. G. H. Drake, Toronto, Canada, giving the benefit of his studies and exhibits over a long period in a field he has made peculiarly his own, namely the methods by which infants have been fed during the centuries and the vessels and utensils used in feeding them.

The opening article in a series on how the pharmaceutical department of the Royal Infirmary at Bristol has developed since the decision, taken in 1737, to set up an "apothecary shop" at the hospital, also appears in this issue; it is based on, and quotes freely from, published histories of the Infirmary and original records. The author acknowledges valuable co-operation from the present chief pharmacist and his predecessor. The full story, together with a history of the pharmaceutical department of University College Hospital, London, published serially in the columns of this paper three years ago (C. & D., 1953, June and July) should help to prompt the writing of similar valuable records of pharmacy departments in other principal hospitals.

Miss Agnes Lothian, the librarian of the Pharmaceutical Society, confirms and widens her international reputation as an authority on the source, markings and value of English delft apothecary ware by contributing this year a survey of the introduction, spread and decline of a "cherub" design on drug vessels. Miss Lothian's review includes on the one hand details sought by the connoisseur and on the other explanations helpful to the tyro who wishes to become knowledgeable and discriminating. More recent history is represented by an article on the porcelain-lidded tooth-paste jars that were, in the late nineteenth century, the containers of choice until ousted by the more practical and economical collapsible tube.

The "biography" aspect is reflected in an article by Mr. Leslie G. Matthews (chairman of the History of Pharmacy Committee of the Pharmaceutical Society), giving the results of his studies of a personality of some tote as a medicine vendor in the 1730's: the self-styled artist" Thomas Eldridge of Norwich.

Under "Travel" may fairly be put an introduction to the charms of the capital city of Ireland, given in part to persuade pharmacists to book passages to the British Pharmaceutical Conference to be held in Dublin in September. Readers are taken to Norway to see one of Europe's most modern and attractive pharmacies; to Holland to learn and see how the growing of medicinal plants has become a solid and well-organised branch of that country's agriculture; to East Africa to see how a raw material with a growing importance as starting-point for the manufacture of cortisone is handled; and to Brazil in South America to study guarana, one of that country's drug exports.

What has become an annual incursion into colour printing has given opportunity this year for a service which should prove of inestimable and lasting benefit to pharmacists faced with the type of poser that occasionally confronts them: What were the tablets that little Willie took; or what tablets were prescribed for Mrs. Whiting? To those questions no conclusive answer can be given except for the few proprietaries whose name is stamped on the actual tablet, but to narrow the range of possibilities to a few may often enable emergency measures to be intelligently taken to prevent a fatality or continue a treatment. For that reason we have, at some expenditure of effort, compiled illustrations showing manufacturers' distinctive markings (other than product names) on white tablets, and actual-size reproductions in full colour of a wide range of coloured tablets, capsules,

With much information of practical or historical value is included other material less important but perhaps equally entertaining or interesting. For the reproduction of an old colour-print, "The Pedlar Apothecary," which amusingly harnesses art to science, we have to thank Miss Lothian, who kindly allowed us to reproduce a curiosity that certainly deserves a new lease of life.

To go into details about every item in a bumper number might be tedious, but it would be a pity to end without mention of the advertisements which, by their number, artistry, information and in many cases colour, help to make the C. & D. Annual Special Issue a unique publication.

### Overseas Trade in Drugs During May

In May, India again provided the best market for United Kingdom exports of drugs and medicinal preparations, the value of shipments to that country being £273,127. Similar imports by Australia amounted to £247,337, bringing the total for the five months of 1956 to £1.31 millions, against £1.56 millions in the same period of 1955. Thus, while Australian trade officials are puzzled at the continuance of a level of total imports well in excess of the Government-set target, the value of the section dealing with pharmaceuticals and chemicals has shown a definite tapering-off during recent months. Australian importers of chemicals and drugs are forecasting that their stocks will be cleared out by September, and already it is difficult to cope with demands for those articles for which no substitute is made in Australia.

Exports of drugs, medicines and medicinal preparations to all countries rose to just over £3 millions in May from the low level of £2.6 millions recorded in April. As will be seen from the table of exports and imports in which values are itemised on the next page,

penicillin exports were approximately half the value of "other" antibiotics, which in the month under review attained their highest value since January. Almost all the items for which statistics are available showed little change from the previous months, but vitamins had their best month this year.

On the import side, less vitamins were bought, while antibiotics were abnormally high. In fact they were higher than in any month since December 1954. There may be a good reason why, in one month, imports of antibiotics should cost the country a sum running into six figures, but it seems to us unnecessarily high when factories have been set up in Britain to manufacture those products. At any rate, such imports help to dissipate the country's dollars, for most of the imports will undoubtedly have come from the United States.

		VALUE				
Drugs, medicine	s, n	nedicin	al p	reparat	ions	£
(total)			•••			3,031,248
Vitamins	• • •					319,204
Penicillin salts						84,623
Penicillin inject						62,102
Penicillin tablet						44,856
Antibiotics other						372,895
Ouinine						11,725
Alkaloids, exclu		auinin	e			74,702
Aspirin						90,697
Antihistamines						32,234
Antipaludics						108,205
Barbiturates						48,012
Liver extracts						18,249
Ointments and I						95,694
Insulin						40,506
Sulphonamides						111,314
Proprietary med						857,225
Unclassified			• • • •	•••		622,543
	• • •		• • • •	•••		49.131
Glycerin	• • • •	• • •	• • •	• • • •		47,751
Acetone	•••	• • •	•••	• • • •		31,947
Citric acid	•••	• • •	• • •	• • • •		13,700
Salicylates	 31		tions	•••		13,700
Perfumery and to						269,450
Lipstick, face		i, etc.		• • • •		132,568
Dentifrices	• • •		•••	• • •		211,825
Toilet soaps		• • •	• • •	• • • •	•••	648,331
Synthetic deterger	.its	•••	•••	•••		040,331
		VALUE				
						£
Vitamins						106,075
Antibiotics						133,383
Alkaloids						62,263
Proprietary medic	ines					35,378
Unclassified medi-						394,561
Borax						48,361
Iodine						2,741
Menthol						15,261
Essential oils						
Bergamot						64,439
Citronella						12,512
Ct						3,714
Clove Lavender	• • • •					31,843
	• • • •					57,455
Lemon						40,306
Orange	• • •	• • •				123,979
Peppermint	• • •			• • •		224,738
Unclassified						227,750

### Relief for British Companies Overseas?

As far back as 1952 the then Chancellor of the Exchequer asked the Royal Commission on Taxation to furnish an interim report on the taxation of overseas profits. A majority of members concluded that the present system of taxation is neither fair to the individual trader who makes the profits nor conducive to the true economic interests of the country. It recommended ex-

empting from tax the profits of overseas trading corporations. Because this might cost the Treasury about £75 millions, the matter was shelved. A number of underdeveloped countries, including some in the Colonies, offer a tax-free "holiday" to manufacturers setting up pioneering industries. Hitherto the tax saved by those companies in those circumstances has not gone to the "beneficiaries" as intended but to the British Treasury. In the committee stage of the Finance Bill on June 19, Mr. E. H. C. Leather drew attention to that anomaly. Other speakers took the broader view that all overseas profits should be exempted from United Kingdom taxation.

The Chancellor, in his reply, said that the matter would be cleared up by the 1957 Budget, and any reliefs would be available on profits earned after April 1956. From his remarks, it seems unlikely, on account of the cost, that he will accept the broader suggestion immediately, but there is more hope for the "frustrated" profits. Whatever the outcome, any concessions granted will be welcomed by companies with overseas branches, many of whom have an unequal struggle with their foreign counterparts. The rapid expansion of American capital into all countries, including the Colonies and Commonwealth territories, the resurgence of Germany in South America and elsewhere, and more recently the active interest of Russia in India, can augur real danger to British manufacturing chemists overseas unless they are given as free a hand as their competitors.

### ENOUGH TO TRY THE PATIENCE OF A SAINT



"I know you like empty bottles

### INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

STREPTO-HYDRAZID
EASIFIX ring-grip combs
FINE POINT surgical instruments
KASEPTOL
COSMO-PHARM (address)
AZYLENE tablets
ITROSYL
INTESTARSOL
TRU-SPOT welder



THE PEDLAR APOTHECARY.

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Pubaby 6 Tile Fleet Street

### What are they?...

### Who makes them?...

### AN AID TO THE IDENTIFICATION OF COLOURED AND MARKED TABLETS, ETC.

This article seeks, by presenting a guide to the markings and other distinctive features of tablets, etc., to help the pharmacist to answer questions with which he is often faced. A warning must be given, however, that the guide should be used with circumspection and that the introduction should be studied carefully.

THE pharmacist is sometimes asked to identify an unknown tablet. If it is white and with no other markings he can hardly be expected to give an opinion, but if it is coloured or has some distinctive mark or shape, he should be able to make as intelligent an answer as he would if the same question was asked about a pharmacognostical specimen or a pharmaceutical chemical.

The problem of identifying tablets assumes its most serious aspect when the question of poisoning arises. It is a problem that, for obvious reasons, most often confronts the hospital pharmacist. It is right that he should be helped to solve it and this article seeks to do so. Where the only clue is colour, identification can be but guesswork, but it is surely better in a matter of life or death that the pharmacist should be able to say "Well, it might be this" or "It might be that," rather than "I haven't a clue." And it may be that his guess will lend further support to a theory already held.

There are also the occasions when a doctor may want to know what tablets (or capsules) his patient had been receiving and the only clue may be the remainder of the patient's supply with the markings on them. It may not be right that the doctor should have to seek such an answer, but that he sometimes has to cannot be denied. Therapeutic need and tablet marking can often provide the vital clues in such a situation and it is expected of the pharmacist that he should be able to interpret them.

The guide that follows is incomplete. For one reason or another certain tablets had to be left out. Tablets on which

the name of the product appears are, for obvious reasons, omitted. In a number of instances the tablets were received by us too late to be included. The markings on some white tablets were thought not to be distinctive enough for the diagrammatic representation that had to be adopted. A photographic method of reproduction was, it was thought, not likely to be sufficiently clear. For the coloured tablets that was, of course, the only method open. Certain inconsistences may be noted in the guide. Apologies for those are offered in advance; the problems were many, the time and resources limited.

In the coloured section an attempt has been made to group the tablets so that the ones that can be identified with most confidence come first and those whose identity can only be surmised follow, but it is specially emphasised that the guide should always be used with reserve.

It should be borne in mind that, owing to the limitations set by the four-colour printing process employed, the colours of the tablets, capsules, etc., may not in all examples be an exact match.

Some coloured tablets were omitted from the table for no other reason than that space could not be found for them. Any such omissions were purely arbitrary, and their absence is regretted.

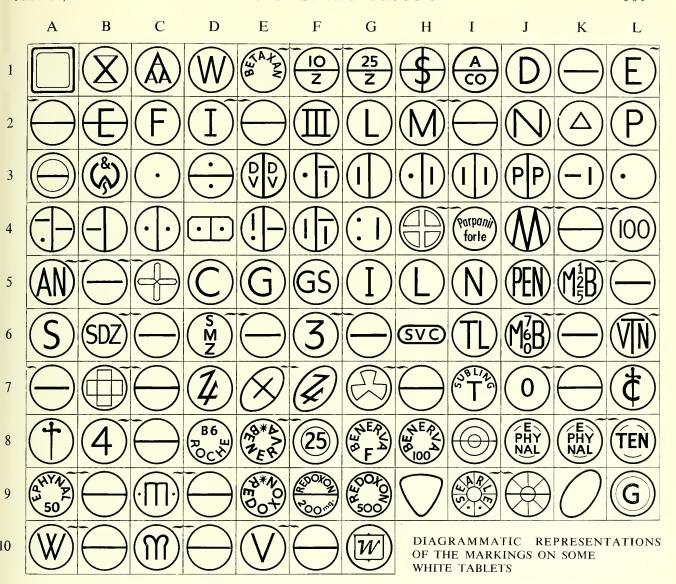
The guide should not be taken as indicating the views of this paper on the wisdom of tablet markings or tablet colourings, the existence of which the guide simply recognises. In the solution of the inevitable questions that such markings raise it seeks to render assistance, especially where the product concerned is a potentially dangerous one.

Finally, a word of thanks should be addressed to all the manufacturers-and not all of them are represented in the guide--who so generously co-operated in preparing this article.

### **KEY TO MANUFACTURERS**

ABB = Abbott Laboratories, Ltd. AFD = Anglo-French Drug Co., Ltd. AMINON = Aminon Laboratories. BAYER = Bayer Products, Ltd. BENGER = Benger Laboratories, Ltd. BENCARD = C. L. Bencard, Ltd. BIOGLAN = Bioglan Laboratories, Ltd. BRITISH SCHERING = British Schering, Ltd. CALMIC = Calmic, Ltd. CtBA = Ciba Laboratories, Ltd. COATES = Coates & Cooper, Ltd. CROOKES = The Crookes Laboratories, Ltd. EVANS = Evans Medical Supplies, Ltd. FAIR = F.A.I.R. Laboratorics, Ltd.
GEIGY = Geigy Pharmaceutical Co., Ltd. GLAXO = Glaxo Laboratories, Ltd. IC(P) = Imperial Chemical (Pharmaceuticals), Ltd. KUMAR = Kumar (London), Ltd. LIDIRLE = Lederle Laboratories Division (Cyanamid Products, Ltd.). LILLY = Eli Lilly & Co., Ltd. Maw = S. Maw, Son & Sons, Ltd. MB = Pharmaceutical Specialities (May & Baker), Medo-Chemicals, Ltd. MEDETHICAL = Medethical Products, Ltd. MJ = Menley & James, Ltd.
MERCK SD = Merck-Sharp & Dohme, Ltd. MOORE = Moore Medicinal Products, Ltd. Organon = Organon Laboratories, Ltd. ORTHO = Ortho Pharmaceutical, Ltd. PB = Paines & Byrne, Ltd. Prizer = Pfizer, Ltd. RECKITT = Reckitt & Colman, Ltd.

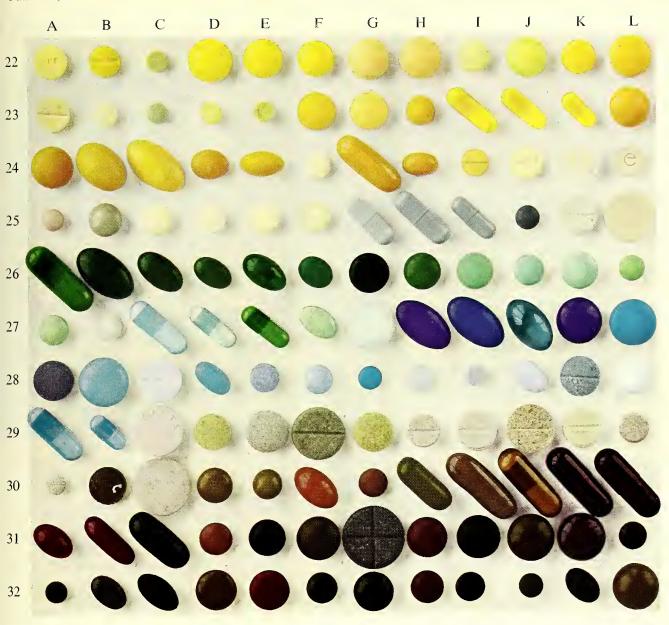
RICHARDSON = John Richardson & Co. (Leicester), Ltd. RICHTER = Gedeon Richter (Gt. Britain), Ltd. ROCHE = Roche Products, Ltd. RONA = Rona Laboratories (John Smythe (London), Ltd.), RYBAR = Rybar Laboratories, Ltd. Sandoz = Sandoz Products, Ltd. SEARLE = G. D. Searle & Co., Ltd. SH TEN = Silten, Ltd. SMITH & NEPHEW = Smith & Nephew, Ltd. SQUIBB = E, R, Squibb & Sons STRIX = Strix, Ltd.
VITAMINS = Vitamins, Ltd. WANDER = A, Wander, Ltd.
WARNER = William R, Warner & Co., Ltd.
WYETH = John Wyeth & Bro., Ltd.



KEY: A1. Tridione 0-15 gm. Dulcet tablets (\(\frac{1}{2}\) in.) ABB. B1. Adalin (9 mm.) BAYER. C1. Alamag (obverse and reverse faces of an earlier marking now obsolescent) (\(\frac{1}{2}\) in.) BAYER. D1. Alamag (obverse and reverse, present marking) (\(\frac{1}{2}\) in.) BAYER. E1. Betaxan 10 and 25 mgm. (\(\frac{1}{2}\) in.) BAYER. J1. Diesed (\(\frac{1}{2}\) in.) BAYER. M1. Butolan (13 mm.) BAYER. I1. Codalgin (obverse and reverse) (13 mm.) BAYER. J1. Diesed (\(\frac{1}{2}\) in.) BAYER. K1. Dolantal (\(\frac{1}{2}\) in.) BAYER. D2. Isupren (\(\frac{1}{2}\) in.) BAYER. A2. Elityran (\(\frac{1}{2}\) in.) and Evidorm \(\frac{1}{2}\) in.) BAYER. BAYER. B2. Evipan (13 mm.) BAYER. C2. Franol (\(\frac{1}{2}\) in.) BAYER. D2. Isupren (\(\frac{1}{2}\) in.) BAYER. E2. Isupren (reverse) BAYER. E2. Luminal gr. \(\frac{1}{2}\), \(\frac{1}{2}\) and 1 (6 mm.); gr. \(\frac{1}{2}\) and 1 (6 m



KEY: A11. Erythrocin 250 mgm. ABB. B11. Erythrocin 200 mgm. ABB. C11. Erythrocin Filmtabs 100 mgm. ABB. D11. Mictine Searle. E11. Monodorm RICHIER F11. Bepthen MJ. G11. Penidural Wyeth. H11. Apolomine-plus Bayer. H11. Apolomine Jayer. J11. Befavit 10 mgm. (see note at foot) Roche. K11. Soluble aspirin with codeine RicHIER. L11. Daprisal MJ. A12. Peritrate with phenobarbitone Warner. B12. Vita-E succinate tables 200 i.u. Bioglan. C12. Seomal Bayer. D12. Veropyron Richter. E12. Panflavin Bayer. F12. Entero-Vioform Ciba. G12. Diodoquin Searle. H12. Rutanin Aminon. H12. Antas Richter. J12. Riserpa I mgm. Richter. K12. Peritrate Warner. L12. Serpasil 4 mgm. Ciba. A13. Serpasil 0 25 mgm. Ciba. B13. Serpasil 0-1 mgm. Ciba. C13. Edrisal MJ. D13. Penidural Sulphas Weyeth. E13. Pyribenzamine Cibas. F13. Tyrosolven Warner. G13. Veramon British Scherking. H13. Monodraf Bayer. H13. Sulphamethazine lozenge IC(P). J13. Drinamyl MJ. K13. Spansule Drinamyl strength 2 MJ. L13. Spansule Denebarbitone gr. 1 MJ. C14. Spansule Devedrine 15 mgm. MJ. D14. Spansule Devedrine 10 mgm. MJ. E14. Nembutal gr. ½ Abb. F14. Nembuddona Abb. G14. Tetracyn SF Fizzr. H14. Ferraplex B Bencard. H14. Amytal and aspirin Pulvules Lilly. J14. Prenatal capsules Lederle. K14. Beplete Wyeth. L14. Plastules Hæmatinic co Wyeth. A15. Fercupar Richter. B15. dienoestrol 0 I mgm. PB. C15. oestrone 1,000 i.u. PB. D15. Delkadon Mirrock. E15. Potensan and Hormofemin I mgm. MEDo. F15. Dellipsoids interatment Richardson. G15. Dellipsoids in and yeast Richardson. H15. Dellipsoids ferrous gluconate Richardson. H15. Dellipsoids sedative tonic Richardson. J15. Sorlate 0.5 gm. capsules Abb. K15. Pil Nulepsi Coates. L15. Ferducon Evans. A16. Menformon 0 I ngm. Organnon. B16. Raudixin 50 mgm. Souubs. C16. Veracolate Warner. D16. Betaxan co. Bayer. E16. Butazoldin 100 mgm. Geigy. F16. Respedrine Kumar. G16. Polyvite Kumar. H16. Paradione 0.3 gm. capsules Abb. H16. Heror Filmitabs Abb. J16. Dayamin capsules Abb. K16. Respedrine Kumar. G16. Polyvite Kumar. H16. Paradione 0.3



hydrochloride 0-1 gm. IC(P). C22. Terramycin soluble Pfizer. D22. Terramycin 250 mgm. Pfizer. E22. Terramycin 100 mgm. Pfizer. F22. Terramycin 50 mgm. Pfizer. G22. Vitamin B complex Crookts. H22. Siogen Gfigs. 122. Thephorin Roche. J22. Cerevon Calmic. K22. Nicorbin Glano. L22. Rybaferin Rybar. A23. Dexamed Medo. B23. Reserpaned 0-1 mgm. Medo. C23. Spascol Coates. D23. Achromycin soluble Ledfelle. F23. Climatone PB. G23. costrone 10,000 i.u. PB. H23. Climased Richter. 123. ephedrine and Amytal Pulvules. Lilty. J23. Nembural gr. 1½ Abb. L23. Oxacliman Richter. A24. Diuposan Richter. B24. Vita-E Gelucaps 75 i.u. Bioglan. C24. Dellipsoids rheumatic Richardson. D24. Menformon Imgm. Organos. E24. Pentakaps Abb. F24. Ethidol British Schering. G24. Aureomycin capsules 250 mgm. Lederle. H24. Aureomycin capsules 50 mgm. Lederle. 124. Folvite Lederle. J24. Dramamine 50 mgm. Searle. K24. Acidol pepsin gr. 7½ Bayer. L24. Elityran Bayer. A.25 Bellergal Sandoz. B25. Tedral enteric Warner. C25. Ro-A-Vit Roche. D25. Allonal Roche. E25. Dibistin C1ba. F25. Neuro-Trasentin C1ba. G25. Co-Elorine Pulvules L11Ly. H25. Elorine chloride Pulvules 50 mgm. L11Ly. 125. Elorine chloride Pulvules S0 mgm. L11Ly. J25. Hypertane 2 mgm. Medo. K25. Fenobelladine Medo. L25. Brewers yeast tablet gr. 7½ Abb. A26. Bilron Pulvules L11Ly. B26. Dellipsoids tonic Richardson. C26. Dellipsoids asthma Richardson. D26. Dellipsoids hypotensive Richardson. E26. Maildone British Schering. F26. Neo-Femergin Sandoz. A27. Devobarb Medo. B27. Androgeston British Schering. C27. Tuinal gr. 3 Pulvules L11Ly. D27. Tuinal gr. 1½ Pulvules L11Ly. E27. Desbutal capsules Abb. F27. Dellipsoids reserpine Richardson. L27. Seconesin Crookis. H27. A28. Carbellon Medo. B28. Sodium Amytal gr. 3 Enseals L11Ly. C28. Coramine-Adenosine C1ba. D28. Felopan co. Coates. F28. Stilboestrol-Organon 1 mgm. G29. Padamina Medo. B28. Sedestran Geigy. H28. Reserpaned 1 mgm. Medo. 128. Diuvitan Medo. J28. Dellipsoids compound ferrous gluconate Richardson. K28. Ethobral Wyeth. E29. Perfenal Croo

The tablets from A11 to E13 have distinctive markings; from F13 to J13 have distinctive shape; from K13 to F14 have distinctive colourings. Tablet in space J11 is misplaced and should have appeared in the third group; tablets in G20, G21, H21, A22, J24, L24 and C29 should have appeared in the first group. The tablets shown are all actual size.

# HARMLESS "POISONS"







H UNDREDS of "deaths" occur each year as a result of swallowing harmless "poisons." They "kill" the same people regularly, often night after night. All the year round on the stages of theatres and repertory theatres and on film sets, people "die" from "poisons" which owe less to the patient extraction of alkaloids from plants and seeds, or the careful formulations of the laboratory chemist, than to the ingenuity of the property manager.

There is no central depôt for the supply of those "hand properties"; no special laboratory provides the inert tablets or furnishes the draughts of harmless coloured water. Even the usual suppliers of stage properties do not issue such things. It is left to the property manager of the individual production to obtain a suitable substitute for the real thing. The criterion is that, if visible to the audience, the substance must look convincing, but above all it must be harmless. There must be no remote possibility of stage accident.

Despite the lack of any hard-and-fast ruling, the comparative paucity of substances that meet those requirements (and are also cheap and easy to obtain), leads to the use of the same few preparations by different companies wherever they may be.

Thus Gertrude, toasting Hamlet's health from the poisoned cup, is probably drinking much the same concoction of burnt sugar and water as Mrs. Prendergast, in *Tabitha*, is discovered pouring (as poisoned water) into a whisky bottle; and wherever *Arsenic and Old Lace* is played the elderly sisters offer to their gentlemen victims a glass of "elderberry wine" consisting of cold water coloured a convincing purple with some harmless culinary dye.

Other substances used to portray poisoned draughts are cold tea, water coloured with cochineal or vegetable

Abby Brewster (Lilian Braithwaite), watched by her sister Martha (Mary Jerrold), pours out a glass of poisoned elderberry wine for Mr. Gibbs (Fred Beck), A scene from "Arsenic and Old Lace."

### THEIR VICTIMS:

Too many to count

## THEIR LETHAL EFFECTS: NIL

colouring, or even—as a pleasanter alternative—plain lemonade. For a bottle of medicine the "mixture" is coloured water again-the brighter the better if it is to be seen by the audience! To show a sediment, bicarbonate of soda is the drug of choice, though sometimes a proprietary indigestion mixture is bought from the local chemist. When pills or



Bottle of arsenic produced Smith and used as "pro-perty" in the film erty '' in the 'Madeleine.''

tablets are called for, any harmless or readily available tablet such as saccharin or aspirin is used if the container is to be seen by the audience. Where tablets must actually be taken, aspirin—or for a larger tablet or one that has to be dissolved, Alka-seltzer—is used. There may be times when the "victim" suffering from a headache or stage nerves even welcomes his "poison." If it can be avoided, however, tablets are not swallowed, since anything in the actor's mouth interferes with his diction, and graceful or realistic swallowing may not be easy on account of "nerves." Usually the actor goes through the motions of tipping the tablets into his hand and conveying them to his mouth. Similarly, in "business" such as tipping a powder into a drink, where the actual powder would not be seen by the audience, no actual substance is used. Romeo, finding Juliet apparently dead, swallows poison from an empty phial.

### Syringe from Local Chemist

In Agatha Christie's Ten Little Niggers, the hypodermic syringe used to administer the poison to one of the victims has probably been bought or borrowed from a local chemist; so have the bottles for liquid and tablet medicines used in other productions, though they may have been filled and labelled by the property manager. A masterpiece of authenticity was the bottle of arsenic exhibited at the trial of Madeleine Smith in the film Madeleine.

One company of players which should have had no difficulty in providing pharmaceutical "props" or producing an authentic layout for a Victorian chemist's shop was the Square Association drama group in its production of Pink String and Sealing Wax in 1954; and indeed, as an illustration reproduced in these pages at the time (C. & D., April 10, 1954, p. 366) amply demonstrated, the construction on the stage at the Senate House, London University, was a most convincing pharmacy interior.

To any actor who suffers from nerves, of course, the most innocent substitute for a bitter poison may taste as bad as the poison itself. In a fanciful sense the innocent substances used on stage and set may yet be regarded as the most toxic drugs of all, since, though not worthy of classification by the Poisons Board they claim a nightly toll of "victims" which, translated into real life, would cause consternation to the authorities and alarmingly reduce the human population of the world.

Top right: Romeo (Sir Laurence Olivier), finding Juliet (Peggy-now Dame Peggy-Ashcroft) apparently dead, prepares to take poison.

Second right: Gertrude (Fay Compton) drinks from a poisoned cup the health of Hamlet (Richard Burton).

Third right: Mary Trellington (Anne Leon) finds Mrs, Prendergast (Marjorie Fielding) pouring poisoned water into a whisky bottle in a Duchess Theatre, London, production of "Tabitha" by John Wildberg and Harold

Fourth right: Ingrid Bergman, in the film "Notorious," playing the rôle of a woman who suspects her husband of attempting to poison her, looks up from her cup of coffee to see his shadow on the wall.











I. ENGLISH POLYCHROME "CHERUB" JAR
Dated 1723 H. 7in.

From the collection of Dr. A. Murray, Stratford-on-Avon

CONFectio ALKERMes or Confection of Kermes. In its original formula the electuary was composed of juice of kermes (quirmis red) together with amber, musk, pearls, lapis lazuli and leaf gold, but by the 1721 London Pharmacopæia the formula had been considerably modified. The dose was a drachm. The electuary was also applied externally on a piece of scarlet cloth.

الأناكية عن الأنواة العرب ا



# CHERUB DESIGNS on English delft apothecary ware

### BY AGNES LOTHIAN

HILE the majority of English delft drug jars with HILE the majority of English details and of the prethere are a few which date from the end of the previous century. The period under consideration will therefore include the last decade of the seventeenth together with the eighteenth century.

The decoration which has come to be known as the

"cherub" design, and found more frequently than any other on English eighteenthcentury delft drug jars, should not be confused with the "angel" design — a Restoration pattern in which the cartouche is surmounted by the head of an angel with wings spread out over the inscription.

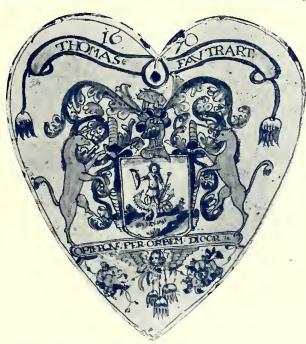
The classical "cherub" design is shown opposite on a rare polychrome jar with the date 1723 (Fig. 1). The drug inscription CONF. ALKERM, is enclosed within a scrolled cartouche which has above the centre a cockleshell. Cherubims, the guardians of Paradise, sit at either end holding sprays. Below the centre there is also the winged head of a cherub. It is important to note that, on the standard design, these wings are almost always closed. This attractive jar is one of a pair from the Murray collection, at Stratford-on-Avon, the other specimen being inscribed C.FL.AURANT (conserve of orange flowers).

The first recorded appearance on apothecary delftware of a cherub's head below the cartouche is on a rare polychrome pill tile, dated 1670, in the Museum of the Pharmaceutical Society (Fig. 2). On this heart-shaped pill tile, which is decorated in blue and yellow with the full arms of the

Apothecaries' Company, the winged head of a cherub will be seen underneath the company's motto OPIFERQUE PER ORBEM DICOR.

The "Apollo" drug jars, which date from 16793, also have this winged head below the cartouche, but on the "Apollo" and other "bird" designs the wings are usually spread out below the centre of the inscription panel.

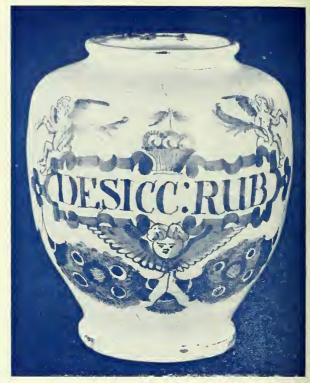
On an interesting series which appears to belong to the early part of the eighteenth century, cherubs above the inscription are holding trumpets (Fig. 3a and b), The rest of the design, however, is that of the "bird" drug jars3. It may be that this is a transitional pattern. The "cher-ub-with-trumpet" jars are less frequently encountered than the more stereotyped "cherub" design. The inscriptions of the various examples extant are generally galenicals included in the



2. Pill tile, dated 1670, decorated in blue and yellow with the Arms of the Society of Apothecaries. H. 11 in., diam. 93 in.

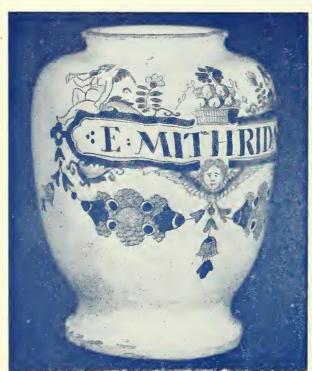
(Museum of the Pharmaceutical Society.)





3a and b. Cherub-with-trumpet-design, early eighteenth century, H. 74 in. Dessic: rub signifies Unguentum desiccativum rubrum or red drying ointment,

Courtesy of Sir Harry Jephcott, London,



4. Mithridatium jar showing a variation of the cherub-with-trumpet design. H, 73 in.

1677 and 1721 editions of the London Pharmacopæia.

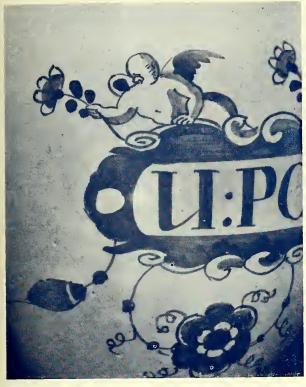
The variation shown in Fig. 4, E. MITHRIDAT., is another eighteenth-century example, the brushwork being particularly well executed. It was not a usual practice to date drug jars in the eighteenth century, and dated specimens are few and far between. The only landmarks are the poly-



5. London Philonium jar from the Museum of the Pharmaceutical Society, mid-eighteenth century. The glaze has a greenish-blue tint, H, 7½ in-

chrome set dated 1723 (see Fig. 1) and another set painted in blue on white with the date 1738 (Fig. 6a and b, U.POPULNE) (Museum of the Pharmaceutical Society). The Howard collection contains other examples of these<sup>t</sup>, <sup>5</sup>.

While the absence of documentary pieces makes it more difficult to date the later drug jars, it is usually possible to





6a and 6b. Poplar bud ointment jar, dated 1738. Decoration cobalt blue on white. H. 7 in.

(Museum of the Pharmaceutical Society.)



7. Syrups of marshmallow and opium poppy. A pair of "cherub" syrup jars. H. 71 in, Courtesy of John J. Broughton, Hull.

form some idea of the age of specimens by studying the glaze, shape, and style of decoration. As will be seen, the drug inscription frequently provides useful evidence.

The clay used for the body of the delft was first made into a slurry with water. The slurry was sieved to remove any impurities, and the water allowed to drain away. The partly dried clay was then "thrown" and shaped into vessels by turning on the potter's wheel. Flat objects, such as pill tiles, were shaped by pressing the clay into hollow moulds. The

body, after a first firing in the kiln, was known as "biscuit" and was sufficiently porous to soak up the water from a wash of finely ground enamel. The "biscuit" was then dipped into a bath of tin enamel, the tin oxide rendering the glaze opaque and giving the earthenware a white coating, which could be decorated after drying. Painting on the porous body required great dexterity and skill, it being impossible to make any alteration or erasure on the absorbent surface. A second firing fixed the glaze on to the body, the pigment



8. An attractive syrup of lemon drug jar showing unusual "cherub" design (see also P. COCH. MIN. No. 10b). H. 72 in.



9. Simple syrup drug jar with spout at the back. Liverpool delft, mideighteenth century. H, 7½ in.







10. a, b, c, Early eighteenth century pill pots showing "cherub" designs. P. COCH, MAI, H. 3-4 in, Pil, coch, min, and pil, coch, maj. (the lesser and greater cochia pills) were the forerunners of compound colocynth pills.

Courtesy of Mr. G. H. Parkinson, Draperstown, N. Ireland.



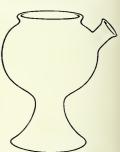
A. Spout and design on the front, Circa 1738,

being fused into the enamel. The various shades of blue were obtained from cobalt. The other colours available were yellow from antimony, green from copper, and brick red from iron. After 1700, greens were made by mixing cobalt with antimony yellow. A purplish black (often used for inscriptions) was obtained from manganese.

The glaze of very early eighteenth - century specimens may resemble that of the seventeenth century—a milky white

broken with pink. A decade or so later, however, the glaze often has a bluish tone. A greenish-blue tint<sup>7</sup> is occasionally seen on Lambeth jars, as is the case with PHIL°. LOND. (Fig. 5). The title Philonium Londinense was adopted by the London Pharmacopæia in 1746, so the date of this piece is unlikely to be earlier than the middle of the century.

Bristol delft has sometimes a faint purplish-blue tint. Liverpool delftware, according to Professor F. H. Garner, may either have a



B. Mid-eighteenth century-Design on front and spout at back,

clear bluish tone or be an almost pure white. The former is more usual on drug jars, especially mid-century specimens. The glaze on Liverpool delft, like that on Irish delftware, sometimes appears sunken where the decoration has been painted. The "cherub" simple-syrup jar illustrated in Fig. 9 is a fine example of Liverpool delftware, the decoration being

painted in a most beautiful shade of violet-blue.

By the eighteenth century the decoration tended to become more stereotyped, the designs being stencilled or "pounced". This was accomplished by laying a paper perforated with a pricked outline on the unfired enamel, Powdered charcoal was then dusted through the pinholes, giving the painter an outline of the design for guidance. more important parts of the decoration were painted by a master painter, the remainder of the design being filled in by apprentices.

As tin glazed earthenware was originally made in both England and Holland in imitation of the expensive Chinese blue-and-white porcelain then being imported by the East India Companies, the painted decoration of English delft apothecary ware, except on a few rare polychrome specimens, is generally blue on white.

Turning now to shape and form, Figs. 1, 3, 5 and 6 illustrate the type of jar used to store galenicals such as electuaries and ointments. Of these, the straight-sided or cylindrical variety are more difficult to find. Early eighteenth-century examples have a flanged lip (Figs. 1 and 3) indicating that the

contents were

C. Late seventeenth early eighteenth century spout (see

protected from flies and dust by means of a parchment or bladder tied over the top. Mid-eighteenth-century specimens were sometimes made with a straight lip to take a metal lid.

Liquids such as oils and syrups were dispensed from spouted vessels usually globular and on a short foot. Up to about 1740 they were made with the spout and design on the front, the handle being at the back (sketch A).

About the middle of the century a more practical vessel with the inscription on the front and the spout at the back came into vogue (sketch B). These vessels were intended to be

grasped by the foot, which is usually higher and more slender than in the handled variety.

Spouts (and handles, too) make an interesting study, and sometimes provide a clue to the date of manufacture. It is not possible to lay down hard and fast rules about spouts except to say that examples similar to those on Mr. Broughton's pair of jars (Fig. 7) were rarely seen after the first quarter of the eighteenth century. This type of spout was

followed by a cylindrical spout with an everted or slightly

flanged lip. Illustrations of the period show them tied over with parchment or other material, Corks were also used, and remains of old corks are sometimes found in spouted vessels. By the third quarter of the century spouts were quite cylindrical and wide—a style copied by the Leeds and also by the Staffordshire potteries, the competition from whose

wares finally killed the manufacture of delft in this

country.

### *Inscriptions*

English delft drug jar inscriptions are almost without exception lettered in abbreviated Latin, the language of the London and Edinburgh of the Pharmacopæias period. "V." or "U." at the beginning of an inscription usually signifies Unguentum or ointment. The seventeenth-century practice of using the letter "V" for "U" is, however, rarely seen on eighteenth-century specimens; though one sometimes comes across "I" "J," as in Fig. 10c: P. COCH. MAI for MAJ.

"E." is used as an abbreviation for Electuarium or electuary-more rarely Extract. If the vessel is spouted, "S." usually represents Syrupus or syrup, "P." generally signifies Pilulae (pills); "C." may stand for either Conserve or Confection. Other likely abbreviations are "B." for Balsam and "T." for Trochisci or lozenges, also "Ther." for Theriacum or treacle.

MITHRIDATE was the famous electuary, believed to have been devised by King Mithridates VI of Pontus as an antidote against poisons and venomous bites.

Philonium Londinense, another electuary, was formerly entitled Philonium Romanum. According to Lemery the term Philonium is derived from its originator Philon, a physician of Tarsus.

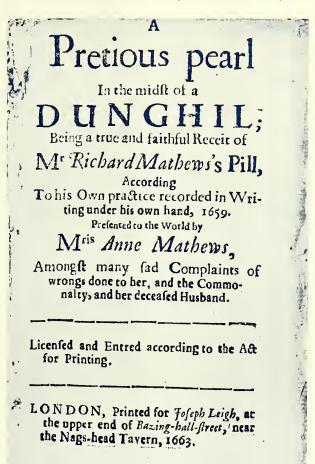
Pilulæ MATHAEI or Mathew's pills (No. 10a). Richard Mathew, who lived "by the Lyons Den at the Tower," described his famous pills in The Unlearned Alchymist, his Antidote, published in 1660.9 Unfortunately, shortly afterwards he died and his widow became involved in a lengthy dispute maintaining that others were marketing the The title-page of her vindication is reproduced in pills. Fig. 11.

- 1. THE CHEMIST AND DRUGGIST, June 25, 1955, Lothian, A., "Angels in the Design of Seventeenth-century Delft Drug Jars,
- Connoisseur, March 1951, p. 21. Lothian, A., "The Armorial London Delft of the Worshipful Society of Apothecaries."
- THE CHEMIST AND DRUGGIST, June 26, 1954. Lothian, A., "Bird Designs
- on English Drug Jars."

  4. Howard, G. E., "Early English Drug Jars." 1931, Plate XIV, No. 47, illustrates a spouted syrup jar dated 1738.

  5. THE CHEMIST AND DRUGGIST, September 19, 1936, p. 323, Two poly-
- chrome specimens dated 1723, The enamel consisted of oxides of tin and lead fused with a silicate
- turquoise glaze belongs to the period 1680-90. Pouncing, Fr. poncif, derived from pumice, the powder originally used. THE CHEMIST AND DRUGGIST, June 25, 1927, p. 831.

of potash and finely ground down before mixing with water. Seventeenth-century Lambeth delft with a definite greenish-blue or



11. Title-page of Mrs. Mathew's vindication, published in 1663 (Library of the Pharmaceutical Society),

# INFANT FEEDERS AND FEEDING in bygone days

By T. G. H. DRAKE, M.B., Toronto, Canada



PHYSICIANS today agree that breast milk is the best food for infants. In the past, the decision between natural and artificial feeding, even when made by the physician, went extremely frequently against woman's milk, not only that supplied by a wet nurse (headpiece) but even the mother's.

As related in "The Countesse of Lincolnes Nurserie" (Oxford, 1622) the mother frequently objected that maternal nursing "is troublesome; that it is noysome to ones clothes; that it makes one looke old, &c. . . . that they are so weak and so tender that they are afraid to venter to give their children suck, lest they indanger their health thereby." A picture of wet-nursing practices in the seventeenth century, quite applicable to other periods, is found in the same book. "I have found by grievous experience, such dissembling in nurses, pretending sufficiency of milke, when

indeed they have had too much scarcitie; pretending willingnesse, towardnesse, wakefulnesse, when indeed they have been most wilfull, most froward, and most slotfull, as I feare the death of one or two of my little Babes came by the defalt of their nurses. Of all those which I had for eighteene children, I had but two which were throughly willing, and carefull."

Through lack of desire or real or supposed inability of mothers to breast feed; financial inability to provide a wet nurse; or fear of the real hazards to the infant of the wetnursing regime, artificial feeding—frequently at the tender hands of the dry nurse—was quite common. Occasionally the infant was applied direct to the teat of an animal, especially the goat, but most frequently the animal was milked and the raw, contaminated fluid administered, whole or diluted, through one of the types of feeding utensils dealt with in

this article, However, "Since all methods of infant feeding involving the use of milk, either woman's or animal's, often dangerous" (Brouzet, paps and panadas thick, usually milkless, cereal feedings-were frequently employed as the sole source of infant nutrition.

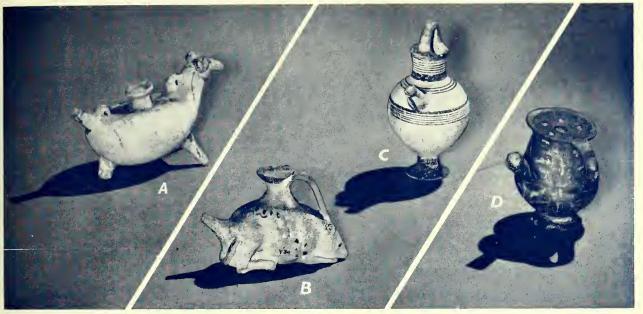




1. Breast feeding, circa 1800, as illustrated in statuettes of the period. Left, porcelain, Niderviller; right, porcelain, Dresden; titlepiece, "La Nourrice," pottery, Continental.

### Ancient Vessels

While ancient Egyptian infant feeding vessels are rare, Greek and Roman specimens are rather common (illustration 2). Those articles, at one time considered by many to be oil containers



2. Infant-feeding flasks, Cyprus: A and B, circa 300 B.C.; C, circa 400 B.C.; D, circa 1000 B.C.

for filling lamps, are now accepted as infant feeders from their occurrence in infant burials, and the discovery through chemical analysis that the inspissated masses found in some were of casein. Without doubt the short sucking spout was topped with a nipple of rag or parchment. The type of pottery coincides with that in domestic use at the time.

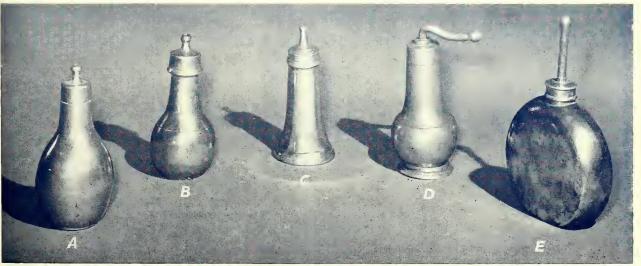
### Animal Forms

Less common than the globular type with handle affixed to the top or side are animal forms. The Roman types were introduced into Great Britain, and examples from as late as the Tudor period have been discovered in London excavations. In mediæval sagas a cow's horn with an opening in the tip is noted as being used for infant feeding. In the painting "The Faun Family," by Jordaens (1593–1678), in the Louvre, the infant Jupiter is pictured holding a wood flask of the type shown in illustrations 3 A and B, while a goat is being milked. This form of pewter flask was common to England, France and Holland in the eighteenth century. Type C is more commonly encountered in Germany and the Scandinavian countries. Occasionally the metal sucking-tube, surmounted by either a short or long external nipple, extends, in the interior of the flask, type D,

to its bottom. Pewter flasks are becoming rather scarce, in part because of their secondary use as feeders for lambs.

### In Imitation of Nature

In 1792 Dr. Hugh Smith wrote that "the infant body is by nature designed to receive only a liquid nourishment. Smith recommended for infant feeding whole cow's milk, skimmed or diluted with water if too creamy, and had no objection to a small quantity of Lisbon sugar being mixed with it, particularly if the child were costive. "To obtain milk from the breast, nature wisely obliges them to earn their nourishment by the labour of drawing it." To meet those requirements he evolved from the gravy pot of the period, designed for separating the gravy from the supernatant fat (illustration 4 A), an urn-shaped pot with a small spout arising from the very bottom (illustrations 4 B and C). A small piece of fine rag tied over the perforated knob "serves the child to play with instead of the nipple, through it the milk is constantly strained, the infant is obliged to labour for every drop he receives and the nurses confess it is more convenient than a boat." Smith's feeding pot found much favour with Michael Underwood, who wrote in 1784, that "the boat, the spoon and the horn are in no



3. Pewter feeding flasks, circa 1750; A. B. D. and E. British; C. German.



4. A, Gravy pot, silver, 1837; Hugh Smith's feeding pot; B, Cream-ware, circa 1780; C, silver, London, 1783.

wise comparable to the (Smith's) pot."

In the 1830 to 1850 period printed pottery flasks of the type shown in illustration 5 were the common British infant feeder. Of our 159 examples 16 per cent, are in plain cream or white glaze; practically all the remainder are decorated in cobalt blue. Twelve bear maker's marks—Wedgwood, Davenport, Copeland late Spode, or Copeland and Garret late Spode. One specimen retains its original nipple, a bit of chamois loosely stitched in the shape of a finger and stuffed with a small piece of sponge.

The feeding nipple has been fashioned from many materials. Pædiatric literature records the use of a piece of fine cloth of the size and form of the human nipple (1720), two small bits of parchment sewed together like the finger of a glove (1771), the tanned skin of a cow's teat (1776), a bit of sponge cut in the form of a nipple (1802),

ivory either natural or decalcified, wood, cork, and silver. On August 9, 1845, the rubber nipple was patented in the United States of America. "I also place an artificial nipple or sheath of India-rubber over the sucking tube. This sheath from its figure and yielding qualities constitutes a better substitute for the natural nipple than any reed or tube of solid material." Before April 19, 1864, the nipple had been directly attached to the feeding bottle. On that date was patented the long flexible sucking tube of small-calibre rubber tubing interposed between the nipple and the flask. The large breast-shaped nipple was patented in the U.S.A. in 1894.

Although Roman feeders of blown glass (illustration 6, B) are occasionally encountered it is only in the latter part of the first half of the nineteenth century that glass became common. In England the shape usually duplicated that of



5. Staffordshire pottery, circa 1840.



6. Glass feeders: A, U.S.A., circa 1840; B, Roman, circa A.D. 100; C, German, circa 1800; D, British, circa 1840; E, Dutch, circa 1850.

the pottery feeding-bottle of the period just previous, still bearing a side opening, to be closed by a cork for filling and cleaning (6 D). Specimen 6 C, cone-shaped surmounted by a metal nipple usually pewter, but occasionally silver, is typically German.

From Galen's time many attempts were made to nourish infants, even from birth, solely on a semi-thick feed prepared

by boiling flour, bread or biscuit in water, "a viscous and crude paste more proper to binders of books than for the nourishment of infants." Frequently it was sugared; occasionally butter or an egg was added. At times the liquid employed was broth, beer or wine. Usually milk was frowned upon, since it was believed likely to cause colics. Many also thought that animal's milk, like human milk,



7. Pap warmers; English. A, delft, circa 1750; B, Chelsea porcelain, circa 1758; C. Whieldon, circa 1750; D, base, slip, dated 1751.

passed to the infant the evil passions and longings of the provider. Frequently the dry nurses masticated the mixture in their mouths before presenting it to the infant. The quantity of pap fed was large; two quarts in twenty-four hours was frequently administered to the young infant. "Surely it is wrong to put a large boat full of pap into their little mouths, suffering them to swallow the whole of it in the space of a minute and then from their cries to ply them with another which is no sooner down than it is thrown up again." The cries from colic were interpreted as due to hunger. Puking was considered natural and wholesome; many considered that the infant was not doing well unless it vomited continually. To provide the continuous supply of pap it was kept warm in a pap warmer (illustration 7). This consists of a perforated base, containing a small burner, supporting a double boiler, the cover of which was usually surmounted by a candle socket. In our fortytwo examples, either complete or bases only, dating from circa 1750 to 1890 are found specimens of delft, Whieldon, Lowestoft, Chelsea, transfer-printed, Leeds, cream-ware and tin-plate. Pap was fed from the spoon, or most frequently

from the boat, which held from  $2\frac{1}{2}$  to 3 fl. oz. Pap boats are encountered in pewter, porcelain, pottery, silver and plate, occasionally in glass, wood, gold, horn and ivory. Covered specimens and those bearing a handle or a tubular spout are rare. British silver specimens date from the early 1700's and, since they were frequently presented as christening gifts, are still rather common. Our rarest specimen is a child's silver toy, capacity one teaspoonful.

At the beginning of the nineteenth century maternal nursing was recognised by all medical writers as the best method of infant feeding. There was still much discussion as to whether infants who could not be maternally breast-fed should be confided to wet nurses or whether they should be fed cow's milk mixtures. However, although physicians were doing their best to de-popularise the use of pap, James Hamilton in 1813 deplored that "Panada and pap be now almost universally used for the first food of infants as a substitute for the mother's milk." That pap feeding was a great factor in infant mortality, which in the late eighteenth century approached 50 per cent, during the first two years of life.

# Nineteenth-century TOOTH-PASTE POTS

By AUDREY NOËL HUME

CENTURY ago the idea of selling tooth-paste in tubes would have been considered as revolutionary as flying through the skies at several hundred miles an hour. In common with most other pastes, whether edible or cosmetic, tooth-paste was retailed in small china jars, with lids of the same substance.



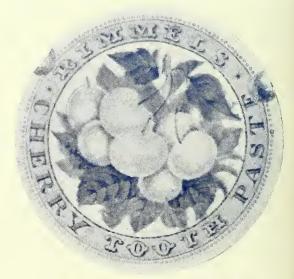
1. An attractive lid. A gold band encircles the legend.

Pots and lids were manufactured in large quantities in the Staffordshire potteries of Messrs. F. & R. Pratt. In 1847 F. Pratt had obtained a patent for the improvement in the production of pot lids, one of his employees (Jesse Austin) having in the previous year invented a process of colour printing on flat or rounded pottery surfaces. Largely as a result of that discovery, Messrs. Pratt were able to manufacture pot lids far superior in quality to similar products of other potteries. Many of their designs were adapted from famous paintings. Others showed historical events and per-

sonages or typical rural scenes. The great majority of the pots were undecorated, and have failed to survive until the present time, the few complete pot-and-lid pairs being highly prized by collectors.

The lids illustrated on these pages, in common with many others whose pots contained cold cream, dandelion cocoa, pomades, and fish and meat pastes, were found in domestic rubbish that had been used in the year 1881 to fill a North Kent sea wall.

Perhaps the most attractive of the lids (No. 1) was made by Messrs, Pratt for the cherry tooth-paste of the London firm of John Gosnell & Co. On it, enclosed by a gilt band, is the legend CHERRY TOOTH-PASTE — PATRONIZED BY THE QUEEN. In the centre of the lid is a young woman's head which bears a striking resemblance to the young Queen Victoria. Doubtless the intention of the artist was to represent the most distinguished patron. The firm of



2. Red and white cherries with lettering in yellow band.



HEREFORD.

best calculated to attract attention to the product.

A lid which some will consider more artistic, and which is highly prized by collectors (No. 2) also covered cherry

tooth-paste, the product of Messrs. Rimmel, who also began using pictorial lids at an early date. The lid appropriately bears a coloured design showing a group of red and white cherries against a background of cherry leaves. The legend is printed on a wide yellow band and enclosed within a ring of circles, a common border on these lids.

The production of pictorial pot lids was comparatively expensive, and their use was a luxury many of the smaller manufacturers could not afford. For that reason many products were sold in plain china pots to which paper labels were affixed. Other firms compromised by using lids with simple legends printed in black and white. Such lids were of small interest to the consumer once the pots were empty, and were therefore thrown away when their more colourful counterparts would often be retained for other purposes. Today, those lettered lids are relatively rare, though collectors generally prefer the pictorial varieties.

The lid which once belonged to a pot of ROYAL DENTIFRICE (No. 3) is interesting in that the paste was made not by a chemist but by a pair of dentists. Maurice and Arnold Gabriel were in practice in Ludgate Hill, London, from 1857 to 1888, and during that time they occupied no less than four sets of premises in that street. The presence on the lid of the royal coat of arms, and the name of the paste, would seem to suggest that it, too, was in use by members of Queen Victoria's family.

A lid that gives more information about the nature of the product (No. 4) was made for John Pepper, chemist, of

237 Tottenham Court Road, a business that ceased to be conducted at that address after 1879. The paste in the jar Was CRACROFT'S ARECA NUT TOOTH-PASTE, which the legend on the lid claims was made from the original Cingalese recipe and which was sold in one-shilling and half-crown pots "by all chemists."

Areca or betel nut was an essential ingredient of many Victorian tooth-pastes, including that made by W. Woods, a Plymouth chemist (No. 5). His product would seem to have been relatively cheaper than that made by Mr. Pepper for, though both pots were sold for one shilling, the Plymouth chemist's lid is larger in size, almost certainly indicating that the pot itself was larger.

Another lettered lid (No. 6) has an ornate floral border around a legend which reveals that its pot once contained ORIENTAL TOOTH-PASTE made by Mr. W. Gethen, Hereford.

The more artistic pictorial pot lids are highly prized by collectors, but as relics of Victorian taste in tooth-pastes the black-and-white lids must be considered equally interesting and valuable.

# ELDRIDGE the Norwich Artist

By L. G. MATTHEWS

"To baffle Death & to elude his Dart Appollo sends a Son to e'ry Part; To Leyden Boerhaave and to London Mead; To Norwich ye fam'd Eldridge is decreed."

OT bad, those verses, as a way for Thomas Eldridge to introduce himself to the people of Norwich in the 1730's! They were a "puff preliminary," printed at the foot of his first trade card1, on which he appears as an alert figure, inspiring confidence in his public, in a tight-fitting black smock coat, white wig and tricorne hat. He had his portrait painted from the life (sc. ad vivum) by T. Hillyard, of whom little is recorded.

### Reflected Glory

In his verse Eldridge put himself in good company. Herman Boerhaave (1668-1738) was one of Leyden's most illustrious sons, a professor of medicine and a philosopher of international fame. So great was his reputation in London that his name was used as a druggist's sign. William Clark, on his trade card2 in the late eighteenth century described himself as a seller of Chymical & Galenical Medicines at the Boerhaave's Head & Wheatsheaf, in Hart Street, without Newgate, London. Mead was undoubtedly the Richard Mead, M.D., F.R.S. (1673-1754) physician and experimenter, a stalwart on the combating

of plague and a noted collector of books and medals<sup>3</sup>.

From the second version of his card, illustrated above', Eldridge has had the artist's name erased, and he now gets down to business, discontinuing the former doggerel in favour of crying his wares:

"The True Preparer of Friar's Grand Original Specific Balsam of Health: Daffy's, and Stoughton's Elixirs; Fine Purging Sugar Cakes, for Worms; Bergamott, and fine Cephalic Herb-Snuff for the Head and Eyes." Who was this Eldridge? Was he merely a quack, an "artist" in patent medicines, or had he pretensions to the brush or pencil yet decided, for want of patrons, to make a living as a medicine vendor? Noble, in his continuation of Granger's Biographical History of England, writes, under "Empirics": "Mr. Eldridge is known only as the

"Empirics": "Mr. Eldridge is known only as the preparer of Friar's Balsam, in the City of Norwich... no other biographical details have survived". We know something of the medicines he advertised:—

FRIAR'S BALSAM: Despite much search, Drummond<sup>6</sup> is not satisfied that the introduction of this medicament was due to Peter de Frias, or even to a Mr. Friar, tending to the belief that its name derived from an early association with the Church. Certain it is that one Robert Grubb, in 1777, took out a patent for the "Frier's Drops". If his product did half what was claimed for it, it was a good medicine to

STOUGHTON'S ELIXIR: Invented by Richard Stoughton, apothecary, of Southwark and patented by him in 1712, No. 3098. The elixir was described as "A new and most useful Restorative Cordial and Medicine which for its effect has been experimentally found to tend to the Publick good . . for above Twenty Years...throughout our Kingdoms of Great Britain and Ireland and likewise in many Foreign Parts." No formula is stated.



Second version of the trade card of Thomas Eldridge

British museum copyright

Stoughton's Patent Lapsed?

The patent granted by Queen Anne, and which authorised action to be taken against imitators, had probably run its fourteen years by the time Eldridge started to make his "Stoughton's." So widely had its reputation spread that "As stodgy as a Stoughton bottle" is reported as a byword current in the Eastern United States. Stoughton was a freeman of the Society of Apothecaries of London, having served an eight-year apprenticeship. Later he became

nown as "Dr." Stoughton (the Elixir must have done him good), and was so described when he took his own son

Richard as a bound apprentice in 170610.

DAFFY'S ELIXIR SALUTATIS: According to Wootton11, this nedicine was invented by the Rev. Thomas Daffy between 660 and 1680, and has been claimed to be the oldest of he proprietary medicines.

A search through local records shows that the selling of drugs was only a part of Eldridge's "pursuit of happiness." Mr. P. Hepworth, M.A., F.L.A., F.R.S.A. (city librarian of Norwich), has been good enough to examine some of the ssues of the Norwich Gazette of the 1730's, and I quote from the notes he has furnished:-

Just come Home, and appointed to be sold at Thomas Eldridge's in St. Gregory's Churchyard in Norwich, and at no other Place in this City, those famous and incomparable Pills, justly intitled Pilulae Polichrestae, or Pills of

many Vertyes. . .

N.B. He continues to sell neat French Brandy, Jamaica Rum, right Holland Geneva. . . He has also a great Quantity of the famous Aegyptian Black Ink. . . Fine Beautiful Two Sheet Maps, and Prospects of all the Cathedrals, Universities, Halls, Public Buildings, and Noblemen's Seats in England; and the King of France's Palace and Gardens, at Versailles; also Variety of curious Copper Prints, both plain, coloured and spangled. Which he frames Prints, both plain, coloured and spangled. Which he frames to perfection, in black or gilt Frames." (Norwich Gazette, August 12, 1732).

### The "Artist"

Here, it seems, was the "artist," or rather, the dealer in maps, engravings and prints, and, come to that, in spirits, snuffs and tobaccos. Again in 1734 he advertises that he makes fine Brandy and Rum Punch to such Perfection, that it pleases the most curious Gentry that drink it, for whose Entertainment he shews his most famous German and Italian Machines gratis, and any time of the Day, giving him 2 or 3 hours Notice, they being the newest and most curious Pieces of Art that ever were seen, viz:

1st. His grand Italian Machine made by the most famous Signior Phenus Orblyhgo; wherein the Sky is curiously represented, with the Setting of the Sun, and the Beauty of the Horizon as in a fine Evening, with Night coming on by Degrees, which shows the Increase and Decrease of the Moon, and the Lustre of a great Number of Stars. . . The Ocean is also represented with a variety of Ships under Sail as though several Leagues or the Sea. The earth is also represented, with the Prospects of the most famous Cities and Places in the World;

2nd. The famous Frier Bacon's Magick Lanthorn which shews

Variety of diverting Apparitions.

3rd. The Inside Views of the most Famous Buildings in Eng-With many other wonderful and amazing Curiosities, which he performs to the great Admiration of the most curious Spectators." (Norwich Gazette, March 30, 1734.)

To have provided accommodation for his diverting entertainment of the City beaux and perhaps their ladies, Eldridge must have occupied a house with a sizeable room or with an upper gallery such as may be seen in the remaining weavers' houses in Norwich. St. Gregory's Churchyard, between St. Benedict's Street and Pottergate Street, was on the edge of the wool industry of Norwich. Almost adjoining was the Shearer's Cross (now Charing Cross) meetingplace of the cloth shearers. South of that were the weavers, the fullers and the dyers. The church alley runs immediately under the high altar. The district must have been well known to Eldridge, and is likely to have influenced his decision to set up his shop there.

The name Eldridge (sometimes Aldridge) is not common in Norwich lists in the eighteenth century but the Freeman's

Roll—1714–52—contains the name:

Thomas Eldridge, worstead weaver, appr. William Furley. admitted 15 June 1730,

and the Norwich Poll Book 1734 has an entry:

Thomas Eldridge, Grocer, worsted weaver.

(I have to thank Mr. Hepworth for both references.)

They would fit in well with the publication by Eldridge in 1738 of "An Authentick History of Norwich, to 1738" a 32-page booklet containing the engraved portrait illustrated here "the like not Extant, by Tho. Eldridge, F.C.N.," published for the author, Norwich, 1738. If Eldridge had been admitted a Freeman in 1730 that fact would doubtless have been in his mind when he set up his grocery and medicine shop some little time later. "F.C.N." suggests only Freeman of the City of Norwich, an early use of "letters" after his name to embellish and heighten his standing with his customers and perhaps add to the mystery of his newfound craft of medicine. Eldridge's dedication runs: To my Fellow Citizens . . . For your Amusements, and the Honour of the Antient City. It contained a condensed history of the city, as was usual in other advertising booklets of the period, lists of Mayors, carriers, coaches, and wherries, the latter much used for transport between Norwich and Yarmouth—"night wherries to Yarmouth every night." Eldridge is careful to say: "the people (of the city) are courteous to strangers." (In 1741, however, the Corporation ordered that no stranger should exercise any trade in the City for more than six months without taking up his freedom.) He does not fail to advertise his "Neat Jamaican Rum, Fine Brandies, Geneva, and Cordial Waters . . . Snuffs and Tobaccoes at the Lowest Prices.'

### **Booklets**

Besides his "History," Eldridge is known to have issued two more booklets: A Book of Rarities or, Cabinet of Curiosities Unlocked by the Key of Experience (T. Eldridge, London, 1743). Perhaps printing was cheaper in London then. A copy was in the British Museum Library but was one of the war casualties and, unless another copy turns up somewhere else, that Cabinet must remain, for the present-day seeker, unlocked. If, as may be supposed, it contained some of Eldridge's borrowed formulas for household remedies, pharmacy and medicine may not have lost a great deal. For his third publication is likely to have been an enlargement of the second. It bore the title Incomparable Varieties: or a Cabinet of Secrets unlock'd by the Key of Experience. Second Edition, with large additions, containing the True Recipes of many Excellent Preparations, Never before made publick. It had as its frontispiece the early version of the portrait and was "Printed for Tho. Eldridge, in St. Gregory's Church-yard, Norwich." It bore no date but is attributed to the year 1745. Fifteen medicines are listed, including A Drink for the Small Pox, An Excellent Vomit, The Grand Cure for the Itch, The Fryar's Vulnerary Ball, Pulvis Fulminans or Thundering Powder, Gordon's New invented Phosphorous and University Ink for Records. In addition to his brandies, rum, and cordial waters Eldridge offers the famous Daffy's Elixir at threepence a bottle and excellent remedies at sixpence a packet. The preface relates that his medicines have 'rendered the lives of many Thousands Comfortable and Easy." He hopes "God may open your Hearts to make USE of them (his recipes) in helping your Poor Neighbours in Affliction." Many of Eldridge's recipes rely upon the stimulating and comforting effects of good Brandy. His Pil. Asthmaticus is a good compound confection of sulphur, and in his conserves and balsams he uses the standard formulas of the period—Daffodil roots steeped in water is the excellent vomit! The Drink for the Small Pox had as its chief ingredients sheep's dung and herbs boiled in water with cochineal and saffron. "This has been experienced to have surprising good effect in the worst symptoms of the most dangerous kind "-and well it may! The cure for the Itch (spirits of turpentine in mild beer) "never failed of curing, through God's blessing!

The use of iron salts as a styptic or as a wound dressing is long established. The Vulnerary Ball was prepared by reducing clean iron filings with Rhenish tartar, in brandy, evaporating to the consistency of a pill mass and moulding

that into balls the size of a walnut; when required, a little of the ball was scraped into brandy, in which lint was then soaked and applied to the wound. Thundering Powder, as its name implies, was for pyrotechnic display. Of more interest chemically was the recipe for Gordon's new-invented "phosphorus" for lighting a pipe. Phosphorus being dangerous for the purpose, the inventor seems to have made use of the fact that finely divided aluminium metal ignites readily. At least that seems to be the theory on which this "new-invented" phosphorus was based. Alum was reduced by heating with fine wheat flour (carbonised in the process) and carefully cooled. A few grains of the product, set upon a pipe of tobacco, "immediately lights it." must "stop your bottle quick or it loses its vertue."

Such were the contents of the Cabinet of Secrets whose variety, according to Eldridge was incomparable. On his subsequent fortune as print dealer, medicine seller and provider of magic-lantern entertainments Norwich is strangely silent. He would have been in his mid-forties when he published his Cabinet of Secrets. If he took his own medi-

cine fortified with his favourite ingredient, brandy, he may have survived to a great age, long enough perhaps to have seen the riots caused by the acute shortage of provisions in Norwich, or the mixed reception given to John and Charles Wesley on their first visit there. A contemporary for a time of "Turnip" Townshend and "Coke of Norfolk," Eldridge's impact on his County has gone, but there is no doubt that he was a lively and ingenious freeman of his native City.

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- 6 C. G. Drummond, The CHEMIST AND DRUGGIST, 1955. I, 687.
  7 Wootton's "Chronicles of Pharmacy," London, 1910. Vol. II, 13f.
  8 Patents Office, Reprints 1857.
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#### 11 Wootton, ibid., 172.

# A HISTORY OF PHARMACY AT BRISTOL ROYAL INFIRMARY

By Laurence Dopson

# 1. Equipping the Apothecary Shop

"...Our Infirmary maintains its patients in druggs cheaper than any of them; tho' to our praise be it spoken, the physicians are not confined to any hospital dispensatory, but order the same for the necessities of the unhappy poor, as they would for the rich: our druggs are purchased of the top dealers in the city, in what quantities we chose, and if they do not please us, we return them immediately: . . . neither do any of the common druggists of that place buy upon better terms than many of those that we deal with. . . .

N the words given above the policy of the pharmaceutical department of Bristol Royal Infirmary was defended against criticism in 1763. The Infirmary itself was founded in 1735 and is thus one of the oldest of the provincial hospitals. It was, indeed, in the van of the eighteenth-century movement that led to the founding of many great hospitals. On the same site since the beginning, the Infirmary is today the Royal Infirmary branch of Bristol Royal Hospital, one of the constituents of the United Bristol Hospitals, the teaching hospitals of the medical faculty of the University of Bristol.

### A Macabre Souvenir

An extensive history of Bristol Royal Infirmary and the men who have served it was published by the Bristol firm of J. W. Arrowsmith in 1917; it was written by Dr. G. Munro Smith and was largely founded on the manuscript "Biographical Memoirs" compiled by Richard Smith, surgeon to the Infirmary from 1796 to 1843. Smith was a truly remarkable man. When the parents of a boy hanged for murder pleaded with him not to dissect the body, he not only rejected their pleas and anatomised the body, but removed some of the skin, tanned it, and used it to bind a book on the murder. The book, now a possession of the Royal Infirmary, is as macabre a souvenir as the lampshades recorded as having been made from human skin in German prison camps during the 1939-45 war.

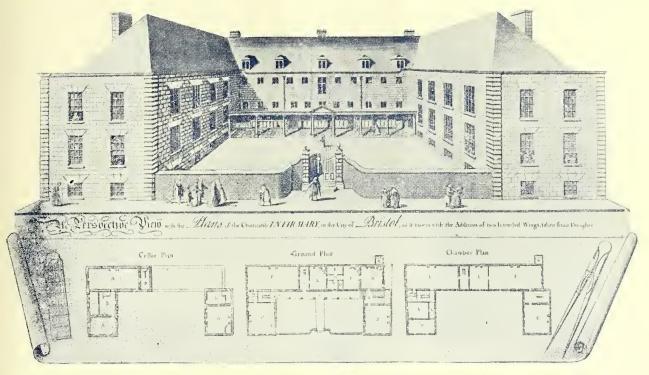
Munro Smith's history has been drawn on for the material for the present historical series. It is supplemented by hitherto unpublished extracts from the Royal Infirmary archives, kindly supplied by Mr. A. B. Scott when deputy secretary to the United Bristol Hospitals, and from information supplied by the chief pharmacist (Mr. G. H. Darling, F.P.S.) and his no less distinguished predecessor (Mr. A. L. Taylor, F.P.S.).

### Subcommittee to Supervise

The committee set up to establish the hospital acted with alacrity. A house and land were obtained on a lease dated July 26, 1737. Of several applicants for the post of Resident Apothecary, Mr. Owen and Mr. Nathaniel Rumsey were recommended as eligible by the Committee, but it was decided to appoint the medical staff first. That was done in May 1737, and at the same meeting of the subscribers Mr. Nathaniel Rumsey "was chose by twentyseven votes" as apothecary. His salary—£30 a year-was paid to him by the matron, who also made the payments for purchases of medicines. The apothecary's shop was initially furnished with utensils which cost £20 and medicines which cost £30. The honorary medical staff formed a subcommittee to supervise the equipping of the shop and reported on the cost on November 4, 1737: "They do think that it will not exceed these two sums." Unfortunately details of the items of equipment and the medicines for this first dispensary cannot be found in the archives. Several of the subscribers to the Infirmary were apothecaries practising in Bristol, and some of them were appointed "Visiting Apothecaries." The first visiting apothecaries were James Bush, Richard Charlton, Giles Bailey and Francis Freeman; they took a month each in rotation to inspect the shop to see that everything was in order.

For the Infirmary as a whole, nine Trustees were appointed as "House Visitors." The Infirmary was, with a nice contempt for superstition, formally opened for patients on December 13, 1737, and a week later the House Visitors were informed by the Matron "that the Chimneys in the Apothecary and Surgeons-Rooms Smoak, and ordered them to be mended.'

An assistant apothecary (Mr. Henry Rumsey) was appointed in July of the following year, at a salary of £5. He held the post until 1739. When an election was held for a successor, "it appearing that two of the candidates



Plan and perspective view of the first Bristol Royal Infirmary, 1742, from Dr. G. Munro Smith's history of the Infirmary.

were married men they were rejected as unqualified persons." The successful applicant, Nicholas Simpson, on eventually retiring from the Infirmary, kept a shop in the Market Place, later practising in the fashionable suburb of Hotwells. Typical of the lively information given in Smith's history is a note that apothecary Simpson "married a Miss Mary Jones, an agreeable lady with a very handsome fortune."

### Snails in Pills

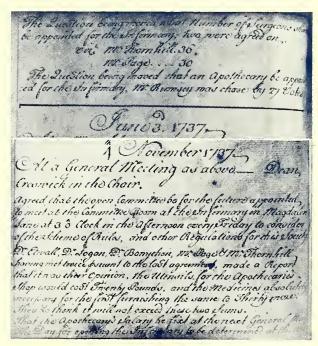
At a general meeting of the subscribers of the Infirmary on December 7, 1739, it was "Ordered that Mrs. Hughes pay three Guineas on account of Mrs. Stephens' medicines and place it to the general account." Mrs. Hughes was the first Matron. There were three medicines devised by Mrs. Stephens—a powder, a decoction and pills. "The Pills consists of Snails Calcined, wild carrot seeds, burdock seeds, ashen keys, hips and hawes—all burnt to blackness—alicant soap and honey." Apart from an occasional special remedy of this kind, the patients at the Bristol Royal Infirmary at this time were generally ordered purgatives, leeches, blisters, setons and some simple medicine "to be taken three times a day." Mrs. Stephens had received £5,000 for her secret remedies, which had been published in the London Gazette on June 19, 1739.

### Pharmaceutical Department Criticised

There is no analysis of the accounts of Bristol Royal Infirmary in the early days to show the costs of drugs, but in 1750 "medicines and other materials for the Apothecary and Surgeons"—the largest individual item in the accounts—amounted to £286 0s. 6\(^4\)d. The next largest item was £190 10s. 6d.—for beer!

In 1763 Mr. Edward Garlick, a gentleman of means who took an interest in hospitals and hospital administration (he contributed to the foundation of Worcester Infirmary) addressed a letter to the subscribers of the Bristol Royal Infirmary in which he criticised principally the amount spent on food and drugs. He compared Bristol Infirmary with St. George's and the London Hospitals and the Exeter, Gloucester and Salop infirmaries. Among his recommendations was

that a committee should be appointed to inquire "into the present means of prescribing drugs." The inference of excessive prescribing has something of a modern ring. In reply to Garlick's criticisms there was published anonymously An Animadvertory Letter, also addressed to the "Subscribers of the Bristol Infirmary." It was from that pamphlet that the quotation at the head of the first article was taken. The following is the full extract, which throws light both on the method of working of a hospital pharmacy department in the eighteenth century and on the robust language of controversy in those days:



Extracts from the minutes, 1737. The upper portion records the decision to establish an apothecary shop. The lower deals with costs of furnishing.

"You exclaim loudly against the manner of our purchasing druggs and medicines: I know not very well, what your precise meaning is by the latter; if you mean medicines that are compounded of druggs, or made by any chemical operation, my answer to it is thus: we do not purchase, but make all our medicines except some few chemicals, that for want of proper conveniences cannot be done: the purchasing of medicines is such a piece of frugality, and good management, that they leave it to some of your favourite hospitals; and to let the world see that we are not so bad, as you would make us; I here present you with the

expence of drugs for the patients of the following hospitals\* viz. for Bristol 3s. 11d. for each patient per ann. for Salop 3s. 23d.—St. George's (which, we may reasonably suppose, purchases its drugs in London) 3s. 6½d.—Northampton 3s. 8½d.—Glocester 3s. 11d. and Exeter 4s.  $4\frac{1}{2}$ d.

"Here it appears that our Infirmary maintains its patients in druggs cheaper than any of them; tho' to our praise be it spoken, the physicians are not confined to any hospital dispensatory, but order the same for the necessities of the unhappy poor, as they would for the rich: our druggs are purchased of the top dealers in the city, in what quantities we chose, and if they do not please us, we return them immediately: a conveniency that could not so easily be done, if we purchased them at London; neither do any of the common druggists of that place buy upon better terms than many of those we deal with: for the brokers in London buy lots both for the one and the other, of the India and Turkey companies, &c. and we have many things imported here which give our fellow citizens an opportunity of accommodating themselves with them upon the best terms; as to your 5 per cent. chap, with the expence of package, carriage, &c. they may be as much in the dark as they are now; and as for your unknown apothecary, as well as your unknown friend, I can say nothing to them, being, perhaps, both creatures of your own brains.

\*The London, St. George's, and Bristol, are for the Year 1762, Exeter, from Lady-Day, 1762, to Lady-Day, 1763, they not beginning their accounts in January.

Salop, Worcester, and Glocester for 1763, the calculator of this not having the accounts for 1762, and Northampton for 1764, the calculator having neither the accounts for 1762, or 1763.'

Garlick's criticisms were considered at a specially convened meeting of the Board of the Infirmary held on November 20, 1764. His proposals, including that for the establishment of a drug committee, were rejected. At the meeting there was some plain speaking. The junior physician (Dr. James Plomer) gave Mr. Garlick "rough and scurrilous language." Garlick had in fact been aiming at Plomer, who was originally an apothecary, keeping a shop first at the Welsh Back and later in Redcliffe Street. "He does not appear to have done very well in business," states Smith, "but he managed to have made enough money by the age of forty to enter at Glasgow University as a student of medicine." When he had his shop he used to sell a universal cure-all compounded by a fellow practitioner. After his appointment to the medical staff of the Infirmary he continued to order large quantities for patients. It is not suggested that he did so from other than a genuine conviction of its value, but there were many protests, and a stop was put to the practice after fourteen years.

The drug department of the Bristol Royal Infirmary came under attack again in 1777, when an anonymous criticism appeared in Felix Farley's Journal, the local newspaper. The following is the relevant minute of the quarterly meeting of subscribers held on June 3, 1777:

"The Committee reported to the Board that the Apothecary, in consequence of a Letter signed A Subscriber, which appeared in Felix Farley's Journal of the 3rd May, greatly reflecting on his Conduct, had solicited and obtained Permission from them to desire the Apothecaries, Subscribers to the House, to inspect the Medicines under his Care, as well as his whole Conduct, in the Apothecary's Shop.

"That the same Letter also containing several Reflections on the general Order and Oeconomy of the House, they had also desired the House Visitors to attend the Board."

"The Apothecary presented to the Board the following Report:

Bristol, May 30th, 1777. "An Anonymous Publication having appeared in Felix Farley's Journal of the third of this Month, in which the Apothecary of the Infirmary and the state of his Shop are represented in an unfavourable Light, We the undersigned Apothecaries (who are resident in Bristol and Subscribers to the Infirmary), enquired carefully into the Conduct of the Apothe-Medicines which were in the Shop; and have the Satisfaction to inform the Public that the Charge is groundless.

Willm. Dyer H. Farr Yeatman John Morse Thos, Blagden Thos. Berjew Robt, Priest

A great Number of the House Visitors having also attended, and reported from their own Knowledge and their Books, that the House is and has been in very good Order.

Ordered

That, to prevent any Injury from such ill-grounded Reports to a House wholly dependent on the Charity of the Public, these Proceedings be published in the

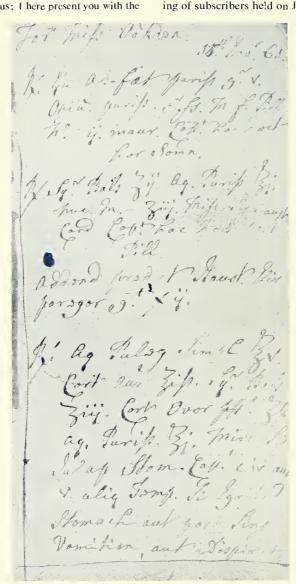
Bristol News Papers the 5th and 7th instant.

The Apothecary to the Infirmary who had requested the investigation in view of the allegations made was Thomas Elmes. He died later that same year from "Hospital fever' contracted from a patient in the House.

The Napoleonic wars caused an increase in the cost of drugs, as of other commodities, notably flour, required by the hospital. The expenditure on drugs during the years 1798, 1799 and 1800 was:-

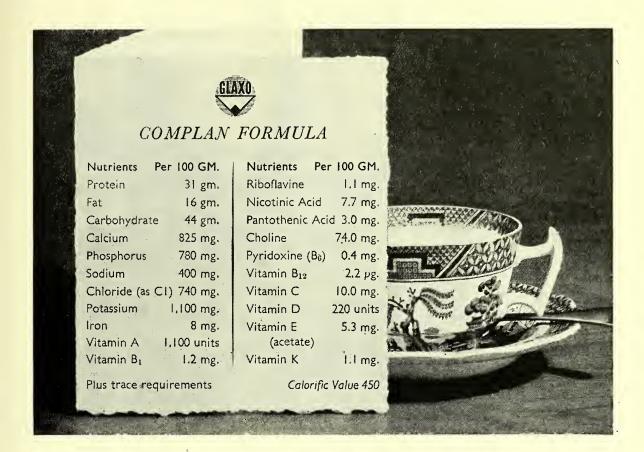
£395 14 6 1798 . . £402 19 6 . . 1799 . . £440 10 0 1800

The number of patients in that period kept fairly steady. (To be continued)



A prescription of 1763

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### TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JUNE 27: Most sections of the markets reported quiet trading conditions during the week. Chinese and Brazilian MENTHOL were about 1s. 6d. per lb. up on last week for spot supplies.

Shipment offers of prime Cape ALOES at 8s. off the previous cwt, rate found little response. Colombian and Matto Grosso IPECACUANHA fell still further. The duty-paid price of CAMPHOR POW-DER, at 5s. 3d. per lb., represented a reduction of threepence. Among Aromatic SEEDS, Dutch Caraway was again easy, with sellers asking 6s. 6d. per cwt. less. Some concern is felt at an announce-ment that the Board of Trade is considering an application for an increase in the import duty on seeds; whether it is intended to cover aromatic seeds is not known but, as the announcement stands, it would appear that all seeds will be affected except grain, peas and beans. Importers and others interested have until July 14 to communicate their views to the Board of Trade's tariff division. Sarawak PEPPER was firmer on the spot but shipment offers were rather easier; black Sarawak was in short supply. Turmeric fell a further 5s. per cwt. on the spot. Shellac was dull and easier.

In Pharmaceutical Chemicals, Re-SERPINE is again quoted lower, THEOBROMINE continues weak. PIPERA-ZINE HYDRATE remains scarce, with good export inquiry. GLYCERIN exports are maintaining a higher level than last year. Several antihistamine chemicals, piperazine salts, and methoin are in a list of items carrying Key Industry duty from June 25 (see p. 561).

In the ESSENTIAL OILS market the decline in Formance Composite to the control of the control

decline in Formosan CITRONELLA was halted, and prices were slightly firmer for forward shipment. Brazilian PEPPER-MINT was sixpence per lb. dearer in all positions. Lower per lb. were ANISE and SASSAFRAS (by threepence); PATCHOULI (by one shilling); and East Indian SANDALWOOD (by 2s. 6d.).

British ALMOND oil was one shilling per lb. lower.

### Pharmaceutical Chemicals

ASPIRIN. — Prices are as follows:—5-cwt. lots, 4s. 7d. per lb.; 1-cwt., 4s. 7½d.; 28-lb. and under 1-cwt., 5s. 5d. Smaller lots from 5s. 7½d. to 6s. 2½d., as to quantity and package.

CAFFEINE. — For 1-cwt. lots, Alkaloid, B.P., is 19s. 3d. per lb.; Anhydrous alkaloid, 20s. 3d.; and citrate, 13s.; sodium iodide, 23s. 9d.

CALAMINE.—1-cwt. lots are 1s.  $10\frac{1}{2}$ d. per lb.; 10-cwt., 1s. 9d.

Calciferol.—B.P. is 3s, 11d, per gm. for 100-gm, lots and 3s, 9d, per gm. for 250-gm.

CHLORBUTOL.—28 lb. lots are at the rate of 10s. per lb.

CHLOROFORM.—1-cwt. lots in winchesters are 3s. 6d. per lb.; 56-lb., 3s.  $6\frac{1}{2}$ d. In drums, prices are 3s. 4d. and 3s.  $4\frac{1}{2}$ d.

COCAINE.—For 16-oz, lots the price of the HYDROCHLORIDE is 91s. 6d, per oz, and ALKALOID, 101s. Subject to D.D.A. regula-

DIPHENAN.—Prices range from 55s. 3d. (56-lb.) to 63s. (1-lb.) per lb.

GLYCERIN.—Rates for pharmaceutically pure are given in the following table:—

pare are given in the renewing men.										
Annual purchases or spot lots of	Under I-cwt.		5-cwt. and under 1-cwt.		5-cwt. and under 1 ton		1 ton and under 5 tons		5 tons and under 25 tons	
Per cwt.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
TINS 14-lb. 28-lb. 56-lb. DRUMS	288 286 282	6 2 6	284 282 278	0	280 278 274	0	275 273 269	6	273 271 267	0 0 0
1-cwt.	_		262	0	258	0	253	6	252	0
2½-cwt.	-		259	0	255		25 I		249	6
5-cwt.	-	- 1	-		255	-	250		249	0
10-cwt.	_		_	•	254	0	250	0	248	6

For 25 tons and upwards the price is from 247s. 6d. to 273s. as to containers. Bulk deliveries in tank wagons from 245s. to 246s. Pale straw industrial glycerin, s.g. 1.260, is 5s. per cwt. less than the above.

PYRIDOXINE. - Manufacturers' rate is £145 10s. per kilo.

RESERPINE. - Price is from 65s. per

THEOBROMINE. — Alkaloid is 22s. per lb. for 1-cwt. lots and the SODIUM SALICY-LATE, 19s. 3d. per lb.

THEOPHYLLINE.—1-cwt. lots of ALKALOID are quoted at 18s. 6d. per lb. and AMINO-PHYLLINE at 22s. 6d.

### Crude Drugs

AGAR.—Kobé No. 1 is from 12s. 3d. per lb., duty paid, and 11s., c.i.f.

ALOES. — Prime Cape for shipment is quoted at 327s. per cwt., c.i.f., and 360s. spot. Curação, 350s. landed.

CAMPHOR. — B.P. POWDER is from 5s, 3d, per lb., duty paid. TABLETS, 4-oz. are 5s. 10d., c.i.f., and 6s. 4½d., spot.

DIGITALIS LEAF.—Purpurea is offered at 3s. 2d. per 1b., c.i.f.

GINGER. — African on the spot is 260s, per cwt., with June-July shipment at 240s., c.i.f. Jamaican No. 3 for June shipment, 500s., c.i.f., spot, 535s.

IPECACUANHA. — Colombian, 44s. spot, and 41s., c.i.f. Matto Grosso, 44s. spot, and 40s., c.i.f.

MENTHOL.—Chinese, 47s. 6d. per lb. in bond (49s. 6d., duty paid). September-October shipment, 45s., c.i.f. Brazilian, 41s. 6d., in bond; 41s., c.i.f.

MERCURY.—Per flask (76-lb.) £86 on the spot.

PEPPER. — White Sarawak on spot is 2s. 5d. per lb. June shipment is 2s., c.i.f. Black Sarawak is in short supply with 1s. 10d. per lb. quoted for spot; June shipment, 1s, 8d., c.i.f. Black Malabar, 270s. per cwt. on the spot; July-August shipment, 240s., c.i.f.

July-August shipment, 240s., c.i.f.

SEEDS.—(Per cwt.). ANISE.—Tunisian, 220s., in bond; Spanish, 260s., duty paid. Caraway.—Dutch is again easier, sellers asking 130s., duty paid, CELERY.—Indian is 140s. to 142s. 6d., spot. Coriander.—Spot, Moroccan, nominal at 95s., duty paid; Rumanian or Danubian, 62s. 6d.; Splits, 55s., and Bulgarian smalls, 50s., all duty paid. Moroccan new-crop for July shipment is now quoted at 60s., c.i.f. CUMIN.—Cyprian, 130s.; Moroccan, 135s., duty paid; Iranian, 125s., duty paid. Shipment (new-crops), Cyprian is 110s., c.i.f., and Moroccan, 102s, 6d., c.i.f. DILL.—Indian offered at 65s. on spot. —Fennel.—Indian quoted 92s, 6d. to 95s., spot. Fenugreek.—Spot. Indian, 70s.; Moroccan, 71s., duty paid.

MUSTARD.—English, 65s. to 75s. according to quality.

SENNA.—Tinnevelly LEAVES (per lb.):—Prime bold, 1s. 4½d.; prime No. 3, 8d.; f.a.q., No. 3, 7d. all on the spot; PODS, f.a.q., new-crop, 7d., c.i.f. Manufacturing, 6½d., spot. Alexandrian manufacturing pods, 1s. to 1s. 3d.; handpicked are from 4s. 6d. to 6s. 9d. per lb. as to quality.

SHELLAC. — F.O.T.N., 300s. per cwt.; F.O. No. 1, 330s. nominal; fine orange, 360s. to 420s.

STROPHANTHUS. — Kombé on the spot is 6s, 9d. per lb. for the 100 per cent.; Gratus is 12s.

TURMERIC.—Madras finger on the spot is easier at 95s. per cwt. with June-July shipment, 77s. 6d., c.i.f.

VALERIAN ROOT.—Indian on the spot is 140s, per cwt. Dutch, 182s., c.i.f.

VANILLIN.— Rates (per lb.) are:—
5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

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ALMOND.—B.P. imported oil is 10s. 6d. per lb.; British, 13s.

AMBER. — Rectified on the spot quoted at from 1s. 6d. per lb.

Angelica. — Seed, 225s. per lb.; root,

Anise.—Chinese, 15s. 6d. per lb., spot; 14s. 9d., c.i.f.

BIRCH TAR.--Rectified is about 14s. per lb. in 1-cwt. lots.

CARDAMOM. — Price per lb. is from 360s, for English distilled and from 265s, to 295s, for imported. CARDAMOM.

CASTOR.—Minimum 2-ton lots of pharmaceutical quality, £154 per ton, naked ex mill, June-August delivery.

CITRONELIA.—Ceylon, 7s. per lb., spot; shipment, 5s. 10\frac{1}{2}d., c.i.f. Formosa spot, 10s. nominal, in bond; shipment, from 6s. 9d. to 7s. 9d., c.i.f., as to position.

GERANIUM.—Bourbon is from 102s. 6d. per 1b on the spot and Algerian, 72s. 6d. LEMONGRASS. — Spot is 14s. per 1b. nominal; July-August shipment, 10s.,

c.i.f.

PATCHOUL1.—Penang is 40s., duty paid, and 33s. 6d., c.i.f.

PEPPERMINT. — Arvensis: Chinese 32s. 6d. per lb. on the spot and 32s. 6d., c.i.f. Brazilian, 24s., spot, and 22s. 6d., c.i.f. Italian "Mitcham"-type oil is from 70s., spot, and American, 42s. 6d. to 47s. 6d. English Mitcham, 190s. to 200s.

PETITGRAIN.—Paraguay, spot, 24s. 6d. to 25s. 6d. per lb., as to brand.

SANDALWOOD. — Mysore is 90s. per lb. on the spot and East Indian, 82s. 6d.

THYME. — Spot is 9s. per lb. for the

### UNITED STATES REPORT

New York, June 24: Japanese Men-THOL in quiet trading declined 15 cents to \$7.60 per lb. Cocillana Bark at 18 cents per lb. was 2 cents lower after the arrival of a fresh lot from Peru, and BUCHU advanced 15 cents to \$1.25 per lb. because of a short supply situation. In Essential oils, Clove was five cents higher at \$2.75 per lb. and NUTMEG, 10 cents higher at \$4.75. LIME was 10 cents lower at \$6.40 and Dalmatian SAGE also declined 10 cents to \$4.00.

### C. & D. WEEKLY LIST OF PRICES

Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; •=Tax 30 per cent.; †=Tax 90 per cent.

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; °=Tax 30 per ce									
BOOTS PURE DRUG	co.	LTD.		I.R	.Р.		PURCHASE TAX CHANGES ALLEN & HANBURYS, LTD.		
Hepastab:— 2-mil ampoule		10	0	1		A	Proctocaine 6 x 2 c.c. 4 6 6 9 R		
-	3	28	0	.3	6	A	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
4-mil ampoule 10-mil vial		18 49	0	5		A A	CIBA LABORATORIES, LTD. Scrpatonil tablets 25 4 3 R		
Hepastab forte:— 1-mil ampoule	3	38	0	4		A	100 14 6 R 500 68 6 R		
	6 12	72 140	0	9 17		A A	HARKER STAGG, LTD.		
2-mil ampoule 10-mil vial	6	122 90	0	15 11	3	A A	Procidets 18 20 0 2 6 R		
Corvotone:	6	30	0	3	9	A	dispensing pack 498 30 0		
2-mil ampoule Vikastab:—	6						RONA LABORATORIES Each		
1-mil ampoule	12 50	56 189	3 0	6 21	3 0	A A	Nydrane tablets 50 24 0 32 0 R 250 103 6 138 0 R		
Viules:→ adrenaline I in 2,0	000						dispensing pack 1,000 375 0 Doz.		
1 mil	6 1 <b>0</b> 0	30 300	0	3 37	9	A A	The viline tablets 0.25 mgm, 25 36 0 4 0 R		
atropine sulphate gr. 1		28	0	3	6	Α	Each		
atropine sulphate gr. 1,	/75	28	0	3	6	A	Doz.		
	100	270	ŏ	33	9	A	ampoule 1 mgm. 2 c.c. 6 67 0 7 6 R Each		
Cobastab 200 1 mil	6 100	54 864	0	96	0	A A	dispensing pack 50 38 0		
Corvotone 2 mils Hepastab forte 1 mil	6	30 72	0	3 9	9	A A	JOHN WYETH & BRO., LTD. (correction) Equanil tablets 20 .8 7		
	100	1,080	0	135	0	A	250 90 0		
gr. 1/20 1 mil	6 100	64 864	0	8 108	0	A A	P.A.T.A. PROTECTED LIST		
methylamphetamine hy		804	Ü	100	v	-	(Alterations notified this week by the Proprietary Articles Trade Association.)		
chloride 30 mgm.	6	30	0	3	9	A	W. B. CARTWRIGHT, LTD. Doz. No. 350 rheumatic tablets*		
morphine sulphate	100	432	0	54	0	A	50 9 0 <b>1 9</b> A		
ы. 1 mil	6 100	33 354	0	4 44	1½ 3				
gr. $\frac{1}{4}$	6	34 378	0	47	3	A A	ARTHUR H. COX & CO., LTD. Auvergne salts* 10 6 1 10 A		
gr. ½	6	36	0	4 50	6	A	Zom pile tablets* 25 9 6 1 8 A 50 13 9 2 6 A		
gr. ½	100	402 39	0	4	101	A	Nazalgene (balm), and Silvettes nerve and liver tonics (50's) have been discontinued.		
gr. 1 2 mils	100 6	432 51	0	54	0 41	A	ALFRED FENNINGS (from July 1)		
	100	744	0	93	0	A	Children's cooling powders*		
with atropine sulph gr. 1/150 1 mil		34	0	4	3	A	50 37 0 <b>5</b> 0 A		
	100	378	ő	47	3	A	Single powders 1½d, each,		
with atropine sulph gr. 1/100 1 mil	6	34	0	4	3	A	ADDITIONS TO THE PROTECTED LIST		
with hyoscine hyd	100 lro-	378	0	47	3	A	ADDITIONS TO THE PROTECTED LIST  J. G. INGRAM & SON, LTD.  Kestwell junior hot-water		
bromide gr. 1/100 1 mil	6	34	0	4	3	A	bottle 61 0 7 6		
papaveretum	100	378	0	47	3	A	WIGGLESWORTH, LTD. CE's (coltsfoot bronchials)*		
gr. 🚦 1 mil	6 100	27 336	0	3 42		A	small 6 3 1 0		
papaveretum gr. 1 v	with	550	Ů		·	•	1 doz, 5 9 large 16 6 2 6		
scopolamine gr. 1/ (also gr. 1/2 with	gr.	21		,	10}		Glinteel lotion* 15 0 8 9 1 6		
	6 100	31 404	0		6		Happy Journey tablets* 8 0 8 3 1 3		
phenobarbitone sodi B.P. (gr. 1½ per							1 doz. 7 6  Ivy lotion* 8 6 1 6		
1 mil pituitary (posterior le	6	34	0	4	3	A	1 doz. 7 9 S.N.A. tablets* 10 0 1 9		
extract 5 units 1 mil	6	28	0	3	6	A	1 doz. 9 3		
procaine hydrochloride	100	360	ŏ	45	0	A	NEW PRODUCTS AND PACKS		
2.2 mils	6	30 312	0	3 39	9	A A	BRITISH PRODUCTS SAN-MEX CO., LTD.		
procaine hydrochlo	100 ride	312	U	37	v	А	Perfumed disinfectant spray 20 0 2 6 refill 20 0 2 6		
(2%) with adrena (1 in 50,000) 2·2 mi	ils 6	30		3	9	A	T. L. BENTON & CO., LTD.		
procaine hydrochlo	100	312	0	39	0	A	Chandau soft curl set 7 26 8 5 6		
(3%) with adrena (1 in 50,000) 2·2 mi	il.nc	32	0	4	0	A	HUGHES BRUSHES, LTD.		
(1 III 30,000) 2-2 IIII	100	348	ŏ	43	6		Magic range*: major hairbrush 7 9		
DUNCAN, FLOCKHA Hypules nalorphine hyp	RT	& C	0.,	LTD.	•		minor hairbrush 6 6 6 military hairbrush 6 11		
bromide 6 x 1	mil			10	6	A	radial hairbrush 7 11 crescent hairbrush 8 6		
Nalorphine hydrobror neonatal 5	mils			5	0	$\boldsymbol{A}$	mirror 7 6		
MERCK-SHARP & DC	OHM	E, LT. 1	D. (	from .	July	( 2) A	loop comb 7-in. comb		
Sucrets* VITAMINS, LTD. (fro	om 1				,	.1	THOMAS KERFOOT & CO., LTD.		
Parentrovite ampoules	in-	E	ach 10	13	3	R	Vodex lozenges 6		
travenous HP pairs	12	27	0	40	6	R R	LEDERLE LABORATORIES DIVISION, CYANAMID PRODUCTS, LTD.		
M	12	20	10	10 30	6	R	Miltown tablets 50 31 3 MERCK-SHARP & DOHME, LTD.		
intramuscular HP	3 12	27	10 0		6		Hydroderm topical ointment		
M	3 24	. 6	10 6	10 60		R R	5 gm. 12 6 12 6 33 0		

-				
HENRY C. MINER, L. Miner's hair lacquer†			2 2	9
Hi-Lites† Hair streak†	Citii		1 3	9
ORALVA DISTRIBUT	TORS	LTD		
Oralva oral vaccine*	2010,	4 0	7	6
PEPTINOL (G.B.), LT De-Nol* 4 x		•	282	3
DETAILD LAD		Each		
PFIZER, LTD. Cortril snuff	25	29 .4		
ROCHE PRODUCTS,	LTD.			
Synkavit ampoule 1 mgm, in 1 c.c.	6		6	6
JOHN WYETH & B	RO., L	Doz.		
Gluferate tablets*	30	30 0 Each		
dispensing pack	250			
ann a Fra		A DEZ	7	

### TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From "The Trade Marks Journal," June 6

For insecticides (5)

IMSHI, B745,578, by BP Trading, Ltd., London, E.C.2.

For pharmaceutical, veterinary, sanitary and disinfectant preparations and substances, all for export except to the U.S.A. and the Union of South Africa (5)

Device showing points of compass, N E S W and the word WINTHROP, 742,891, by Winthrop Products, Ltd., Kingston-on-Thames, Surrey.

For pharmaceutical products (5)

NISOLONE, 746,964, by Lepetit, S.p.A., Milan, Italy,

For pharmaceutical preparations and substances

for human and veterinary use (5)
COVISTEN, 748,299, TOSANON, 748,301,
STROLANE, 750,395, COLAZANE, 750,396,
NEMIGRON, 750,867, by Organon Laboratories, Ltd., London, W.C.2.

### **COMING EVENTS**

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of Insertion.

### Sunday, July 1

HARROW BRANCH, PHARMACEUTICAL SOCIETY, country ramble, Meet Berkhamsted station for 2.19 p.m. train to Tring, or meet at Tring, 2.25 p.m. Return Berkhamsted 8 p.m. Cars can be parked at Berkhamsted station.

SHEFFIELD PHARMACY CLUB, car park, Newstead Abbey, at 3.15 p.m. Visit to Newstead Abbey and gardens. Picnic tea and games.

### Monday, July 2

HULL CHEMISTS' ASSOCIATION and BRANCH, Imperial hotel, Hull, at 1.30 p.m. Luncheon club.

### Wednesday, July 4

CROYDON PHARMACISTS' ASSOCIATION and BRANCH, ROTION PHARMACISIS ASSOCIATION and BRANCH, PHARMACEUTICAL SOLIETY, Swan and Sugar Loaf hotel, Croydon, at 1.15 p.m. Visit to Ford Motor Co., Ltd., Dagenham, Essex. Picking up point: Opposite West Croydon station, 1.20 p.m. Ticket, price 5s., from Mr. G. B. Simposite Medical Lead Additional Pages Solidan. son, 164 Addington Road, Selsdon.

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Bush Radio, Ltd., Plymouth, at 2.30 p.m. Visit.

### Thursday, July 5

WEST HAM ASSOCIATION OF PHARMACISTS, OUIside Boardmans, Stratford Broadway, London, side Boardmans, Stratford Broadway, London, at 1.45 p.m. Annual outing Picking up points: Barking (corner of Glenny Road and Longbridge Road) 1.10 p.m., Ilford Lane 1.15 p.m., Ilford Hill 1.20 p.m. Ticket, price 21s., from Mr. W. H. Cloud, 45 Longbridge Road, Barking Fees. ing, Essex.



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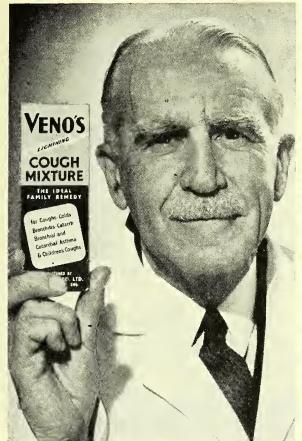
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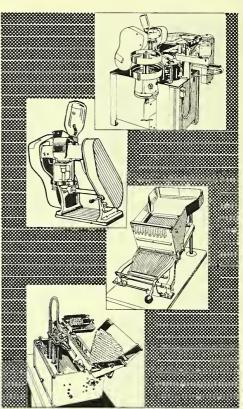
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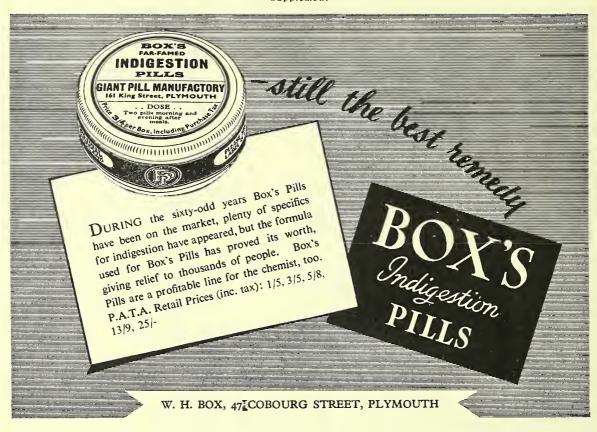
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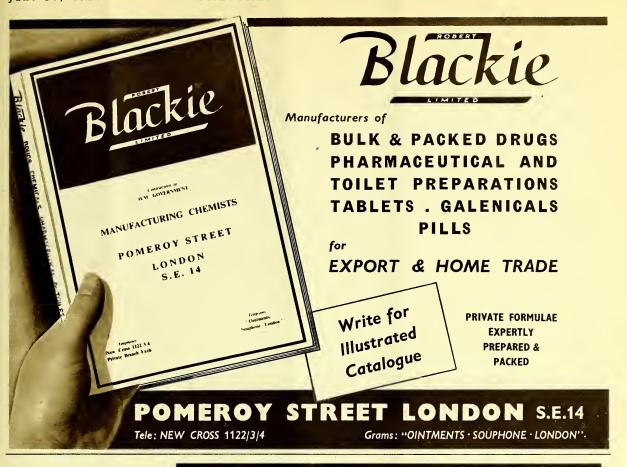


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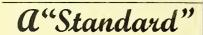
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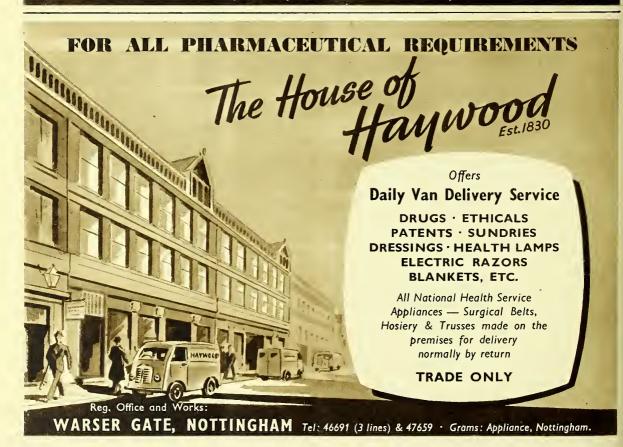
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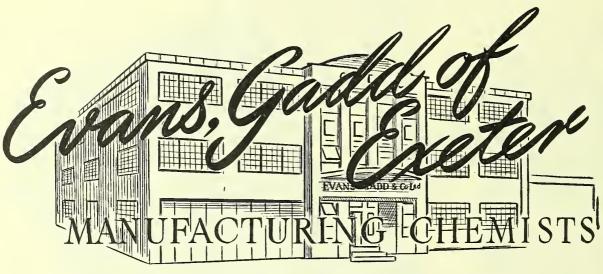
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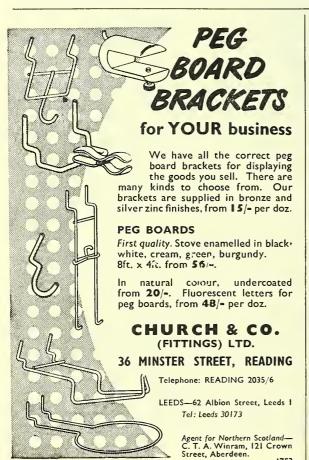
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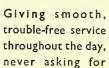
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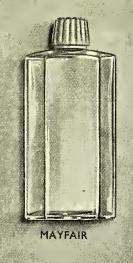
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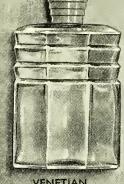
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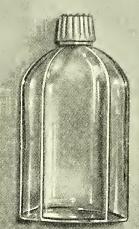


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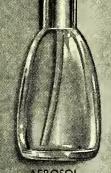




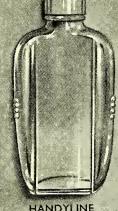
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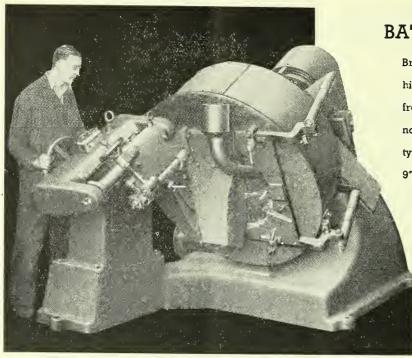




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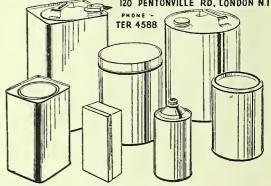
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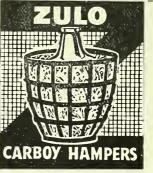
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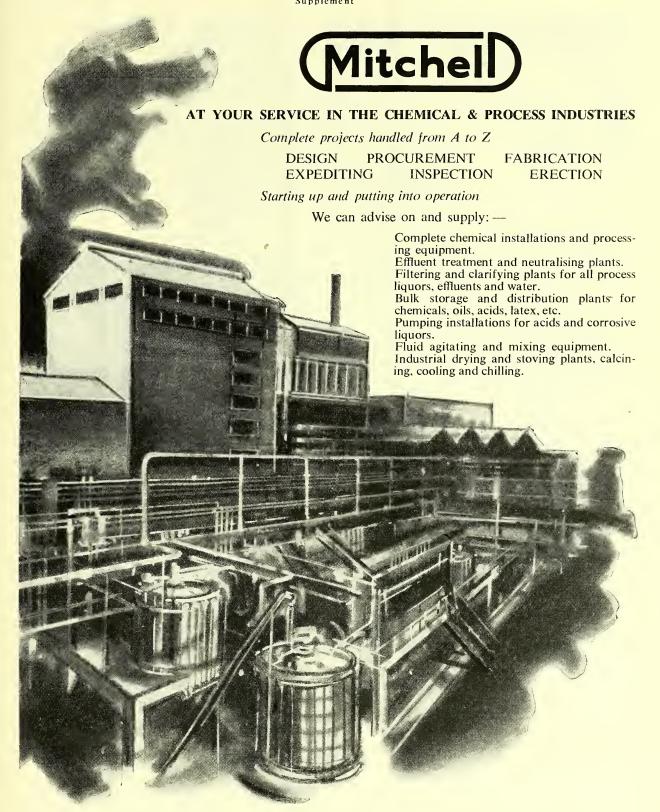


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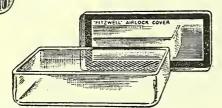
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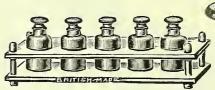
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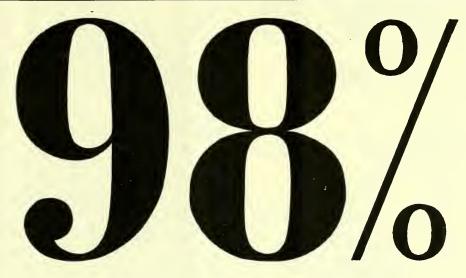


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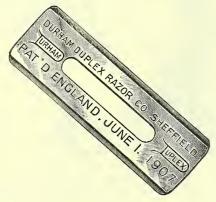
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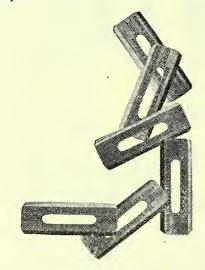
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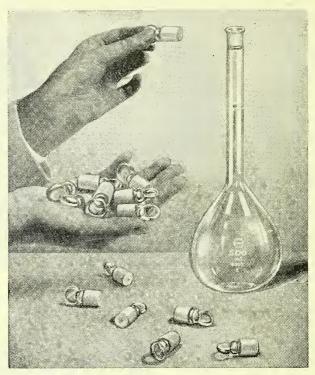


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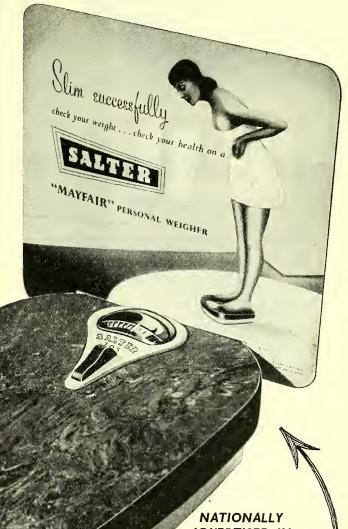
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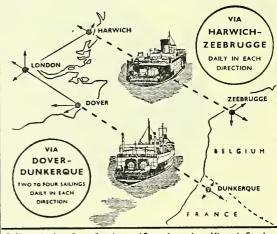
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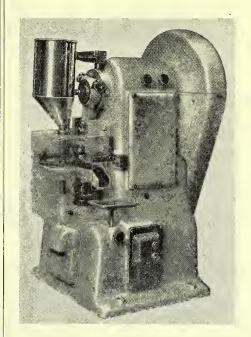
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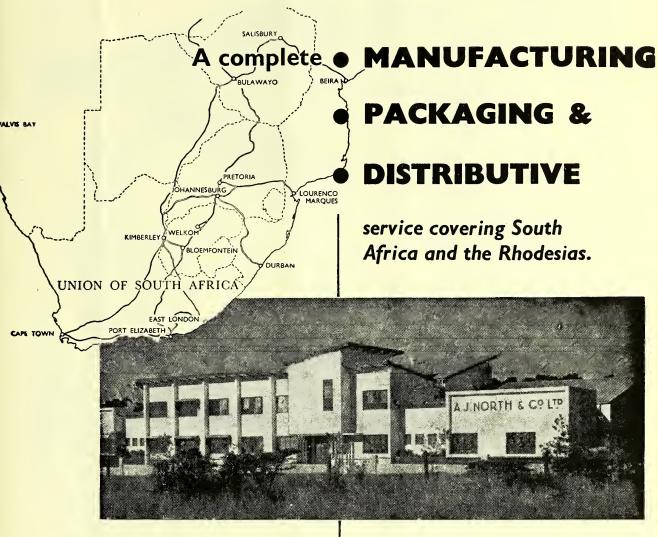
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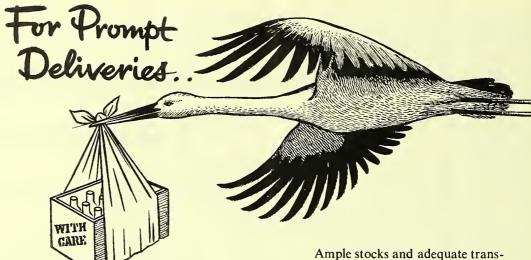
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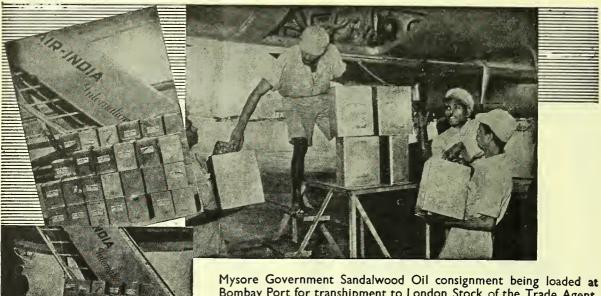
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Retail Price. Contents: 13 fl. ozs. 30/9 per dozen. Very generous quantity terms.



WITH THESE 2 GOOD HEALTH FRUIT DRINKS

Rich in Vitamin C





WHOLE FRUIT

#### FRESH CRUSHED ORANGES & LEMONS

We boldly claim to be the finest Squash on the Market, Made with Whole Fresh Fruit since 1920 (except for war period). A unique Squash demanded by many Famous Sportsmen and Personalities: The only National Mark Squash in large bottles with declared Vitamin C (Ascorbic Acid) content on every label.

3/.

Retail price: In large 26 oz. bottles 28/9 per dozen I Very generous quantity terms. The "Or-Lem" Brand Squash range also includes Pineapple, Orange, Lemon, Grapefruit, Lime Juice and Lemon Barley.

Most Wholesalers are already stocking these two outstanding lines.

OR-LEM LTD., 77 MILLBROOK ROAD, SOUTHAMPTON

South Wales Distributors: R. ROWLAND JAMES LTD. Cardiff and Swansea.





#### DIAGNOSTIC SET

The most popular set, No. 3004, of the range illustrated above contains all the instruments necessary for the examination of the Ear, Eye, Nose and Throat and incorporates all the latest improvements.

the latest improvements.
All bright parts are chromium-plated and untarnishable, non-ferrous and entirely rustless alloys are used throughout.

Made in England by:-

#### **GOWLLANDS LTD**

MORLAND ROAD · CROYDON · SURREY

Supplied through the Distributing Trade only.

#### More and more people are drinking

### Rose's

DIABETIC LIME JUICE

Rose's originally produced their Diabetic Lime Juice expressly for diabetics. But now, more and more people are getting to know that limes have less sugar content than any other fruit; second, that Rose's Diabetic Lime Juice is free from added sugar. They know it as an invaluable aid to healthy slimness, as well as a refreshing and delicious drink.

Backed by an interesting new advertising campaign in the Diabetic Journal and other medical publications, the demand for Rose's DIABETIC fruit drinks is growing.

Ensure that your stocks are sufficient to meet this demand.

ROSE'S ALSO PRODUCE ORANGE SQUASH & LEMON SQUASH, AS WELL AS SUGAR-FREE MARMALADE, IN THEIR DIABETIC RANGE







Heavy advertising in

'WOMAN'
'WOMAN'S OWN'
'DAILY MIRROR' etc.

will reach

15,000,000 WOMEN

-widening the market for this fast-selling wave-set

TRESS, already one of the biggest selling wave sets, will reach an even wider market with the addition of this half-size pack. Be sure you have stocks to meet an entirely new demand for 1/9d Tress. The large size will still continue in demand by enthusiasts who have formed the habit of buying Tress at 2/10½d per bottle.

#### TRADE TERMS

SMALL SIZE
Price 8/10d
per dozen bottles
plus 90% tax
selling at 1/9d per bottle.

LARGE SIZE
Price 14/5d
per dozen bottles
plus 90% tax
selling at 2/10½d per bottle

GOLDEN LIMITED, 7 GROSVENOR STREET, LONDON, W.I. Hyde Park 1671

Trade Enquiries for the Republic of Ireland should be addressed to: Lilmar Pharmaceuticals, Ltd., Santry, Dublin.

#### **NEW IMPROVED & SIMPLIFIED**

### Cystex

### NEW FORMULA & PRICES OPERATIVE FROM 2nd JULY 1956

THE NEW FORMULA

Improves as well as combines all the values of Cystex into one orange coloured tablet instead of brown and grey tablets as heretofore, thus making directions simple and easy.

TOTTING .						
Hexamethylenetetramine				2	grains	
Sodium Salicylate				11/2	,,	
Phenacetin		•••		1	**	
Benzoic Acid				3	,,	

#### **NEW PRICES**

	PRICE PER DOZEN TO CHEMIST	PRICE PER UNIT TO CONSUMER, incl. P.T.
TRIAL SIZE	22/6	3/I
STANDARD SIZE	45/-	6/2
ECONOMY SIZE	90/-	12/3

Order supplies through your usual wholesaler.

KNOX LABORATORIES LTD., 46 HERTFORD ST., LONDON, W.I





TWINKLE GLINTS & DUST

Retail Prices:— I/II½d., 3/IId., 7/3d., inc. P.T. Order from your Wholesaler or firect from HUNGAR HOUSE, GREAT GEORGE STREET, LEEDS, I.

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MADE BY THE FINEST SKILLED WORKMEN
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GUMS & LOZENGES for cold journeys



FRYER & CO. (NELSON) LTD. NELSON, LANCS

N.99



BRYLCREEM scores

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-with this DAILY EXPRESS 1/2-page

Men of the World all the World over.

prefer the perfect hairdressing

To was and hold the position of world favourite takes some doing. And that's what Brylcreem has done! Each year, Brykreem's leadership grows space as more men of the world, all over the world, find Brykreem is all the hair needs for health and appearance. It grooms without greasing—and without stiffening the hair. With massage, it aids the normal flow of sebum, the scalp's natural oil, thus relieving dryness and dandruff. Always use Brylcreem for day-long smartness and lasting hair health.

RYLCREEM

for every style of hair

Tubs 1/10t, 2/10 and 5/-, handy tubes 2/10.

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APPEARING

backed by supporting spaces in the National and Provincial Press.

PUT ON A GOOD SHOW OF BRYLCREEM

the world's fastest-selling hairdressing!

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Luzcol



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SANITARY TOWELS

Clever women know the wisdom of choosing the towel that gives them most freedom and comfort. That is why they ask for Luxan or Luxol, and ensure hygiene and economy too.

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TO RETAIL AT

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OF 12 TOWELS

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Here's the new Sanizal pack you've been asking for! SANIZAL is the most popular and the most ad-

SANIZAL is the most popular and the most advertised coal-tar disinfectant. Everyone can afford the new 10d. size and for those who prefer, there is still the 1/2d. size.

SANIZAL advertisements are appearing *now* in the national dailies and in the Radio Times—and this big campaign reaches its peak in the summer months.

Take advantage of this opportunity to increase your sales of Sanizal by ordering supplies of the 10d. size now to meet the big summer demand.

TRADE PRICE 7/6 PER DOZEN



Show them both, the 1/2d. and the new 10d. bottle of SANIZAL. This attractive display material is available on request.

The SANIZAL crowner

The SANIZAL dispenser-bright, efficient, compact!

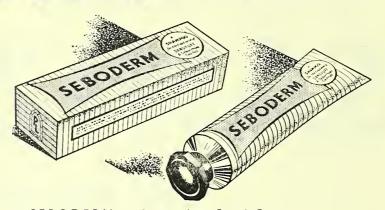
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June 30, 1956

### The treatment for Dandruff and Seborrhoeic Dermatitis ...

### SEBODERM CETRIMIDE

- ★ Prepared specifically for care of the scalp and hair.
- ★ Most effective in treatment of simple Dandruff and Seborrhoeic Dermatitis.
- ★ The Shampoo is pleasant to use.



SEBODERM in 3-oz. tubes, Retail Price 2s. 4d. each inc. P. Tax. To PHARMACISTS—331 per cent. PLUS bonus I free tube per dozen.



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JARVIE'S QUININE is well known because behind its manufacture a great deal of highly specialized work has been carried out under most modern conditions. The pure clear water of Scottish Lochs is used solely in the crystallization of JARVIE'S QUININE SALTS.

It has been famous for more than half a century.

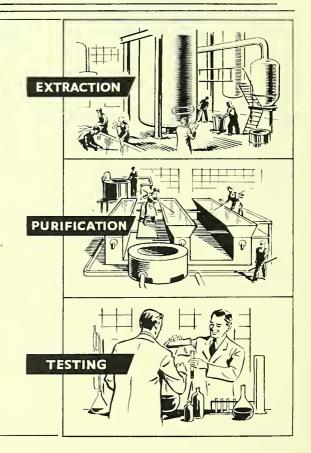
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SCOTIA CHEMICAL WORKS

COATBRIDGE · SCOTLAND

Tel: Coatbridge 135 Grams: "TOILET" Coatbridge

ESTABLISHED 1892



### ACME VACUUM FLASKS, JUGS & JARS IN ASSORTED COLOURS

#### 'STANDARD' MODEL FLASKS

In four sizes as shown and also 8 Fl. oz. MODEL (with bell-shaped cup).

#### NEW NYLON STOPPER and IMPROVED PLASTIC POURING LIP





oz.: 36 224

Both these innovations are the last word in cleanliness and hygiene as they can be sterilised.

The tight fitting neck seal prevents liquid seeping into canister. (At present for 16 Fl. oz. size only.)

### THE IDEAL PRESENTS FOR ALL OCCASIONS. EXCELLENT GIFT LINES



#### JUNIOR JUG

16 Fl. oz. capacity. Extra light weight. Easy to pour and handle. Made of strong alu-

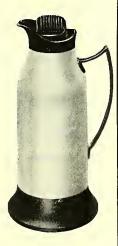
Made of strong aluminium with scintillating cross-grained finish. Supplied in attractive assorted colours:

Plain polished, blue, green and gold.

#### MODEL No. 5 JUG SET

16 Fl. oz. capacity in Plastic with metal handle.
Colours: Ivory/Black (as illustrated) Light/Dark Blue: Light/Dark Green.





MODEL No. 5 JUG Jug only as described on left, each packed in attractive carton.

#### **'EVERYBODYS' MODELS**

A FAST SELLING LINE AT A VERY LOW PRICE. Polystyrene Cups, assorted colours. Available in 30½; 22½; and 8 Fl. oz. sizes—the latter with corrugated canister and bell-shaped cup.



Capacity:  $30\frac{1}{2}$  Fl. oz. Panelled Canister. Overall height 13 ins.



Capacity: 16 Fl. oz. Corrugated and Panelled Canister. Overall height 10 ins.

#### VACUUM JAR

Capacity:
Approx. 1 Gal. (4½ Litres)

Wide mouth jar, internal diameter of glass 6" (15 cm.), suitable for hot stew, soup, or for butter, ice and ice-cream, etc.

Heavy Gauge steelplate canister finished in black stove enamel and also assorted plain colours and nickel plate accessories.

Lid with leak-proof plastic seal and strong efficient clamping fixtures; fitted with pressure valve to permit easy removal of lid in

Individually tested for heat and cold retention.

Overall height of canister: 14" (35 cm.).

Net Weight: 8 lb. (3.63 kgs.).

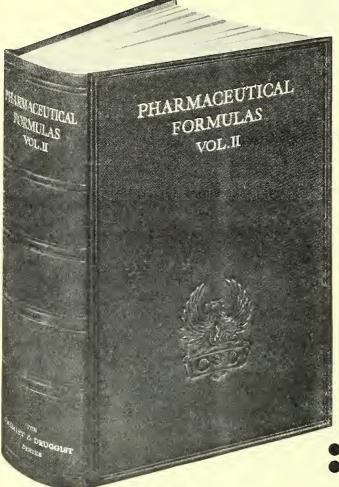
AS SUPPLIED TO H.M. FORCES.

ACME VACUUM FLASK CO. LTD., PHŒNIX WORKS, BRIDGEND, GLAM.

London address: Balfour House, 119-125 Finsbury Pavement, E.C.2



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is a standard reference book presenting a comprehensive summary of vital pharmaceutical interest, compiled from world-wide sources.

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# To chemists who are right on top

The Pinaud range of men's toiletries offers you a dual advantage. Firstly, a share in the exclusive quality trade, selling to mcn who know what they want and will ask for it.

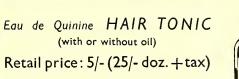
Secondly, a handsome profit margin of almost 50% on every sale you make.

Pinaud products have a subtle appeal—they make a man feel fresher, more confident. Advertising for this exclusive range is appearing in carefully selected media to reach the top men.

Don't take the risk of disappointing them—order your supplies of Pinaud NOW!

#### For men who are right on top





also available in 8 oz. and 20 oz. sizes.



Lilac Vegetal AFTER SHAVE

Retail price: 6/3(31/3 doz. + tax)

Details of the full range of Pinaud Men's Toiletries will be sent immediately on request.

Sole Agents to all Chemists:

BIOMETICA LIMITED, Park Road, Barnet, Herts. (Phone: Barnet 1914)





How often do your customers ask for a weight-reducing product?

HERE IS A HARMLESS PREPARATION WHICH IS REALLY EFFECTIVE

### CARRUGAN THE SWEDISH MILK DIETING METHOD

In the CARRUGAN method which is based on the reaction of a weak organic acid with a neutral salt the casein contained in milk is precipitated within a few minutes in the form of evenly distributed, easily digestible flakes. CARRUGAN gives the milk a more bulky form.

CÁRRUGAN milk contains all the necessary vitamins.

PACKING: CARRUGAN is available in packs of 2 oz. tins (retail price 10/11) 4 oz. tins (retail price 19/11). COMPOSITION: Tartaric Acid 63%, Magnesium Bicarb. 14%, Albumen 1%.

SOLE DISTRIBUTOR:

MILLER of Golden Square Ltd.

13 GOLDEN SQUARE, LONDON, W.1. Tel: Gerrard 6533

Now Available—A Modern Version of an Old Favourite

### The Art Completely re-written 1953 Price 21/- (postage 1/3) Of Dispensing

"The Art of Dispensing" is the most economical, complete and up-to-date manual dealing with the pharmacist's work at the dispensing counter. Explained in simple yet concise fashion, this book is a necessary part of the equipment of every dispensary. New ideas have been incorporated and scientific knowledge has been added to the art formerly based on skilful training during apprenticeship and from experience gained in pharmacies of international repute.

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#### THE WORLD'S GREATEST BOOKSHOP



NEW, SECONDHAND AND RARE

#### ROOKS

Foyles have Departments for Gramophone Records Stationery, Handicraft Tools and Materials, Music Magazine Subscriptions, Foreign Stamps.

119-125 CHARING CROSS ROAD, LONDON, W.C.2

Gerrard 5660 (20 lines) ★ Open 9-6 (Thur. 9-7)
Two minutes from Tottenham Court Road Station

See you in the DAILY EXPRESS

on July 10th



Gillette will have a half-page advertisement in the

**DAILY EXPRESS** (Circulation 4,044,765 copies)

on July 10th, 1956, to advertise the Gillette 'Rocket' Set.

This is only one of many imposing advertisements in a £100,000

campaign (the biggest ever for a razor set!) that will make

this an even more profitable year for sales of the Gillette 'Rocket' Set.

Back it up! Use the Gillette Summer show material and

keep the 'Rocket' Set in your windows and on your counters.

GILLETTE INDUSTRIES LIMITED, GREAT WEST ROAD, ISLEWORTH, MIDDLESEX

#### FOR YOUR BOTTLE WRAPPING



#### Certor Regd. DISPENSING PARCHMENT

for all sizes of bottles, is a good, strong, crisp paper, easy to handle, and pure white. It is packed in strong cardboard cartons, holding one ream, and is thus kept flat and in the best condition.

#### Certor Regd. DISPENSING SATCHELS

also make a neat wrapping also make a neatwrapping for your bottles. They are well made, with a good finish. Available in eight sizes, they are packed in strong cardboard boxes which keep them free from received and ceiling. from creasing and soiling. Each box holds 500.



With a £10 order for Certor Dispensing Parchment you can obtain the Certor Dispensing Parchment Cabinet at half cost (10/6): and with an order for satchels to the value of £8 10s 10 you can get the Certor Dispens-ing Satchel Cabinet at half cost (6/6). Made of wood, and fin-ished in light oak, both cabinets are proving their usefulness in many dispensaries.

If it's paper

or made with paper get it from

Certor Regd. PILL & TABLET CARTONS PLAIN

These are good quality cartons made of white-lined pulpboard. They are useful and economical containers. The outer cartons in which they are packed hold 500. With a £7 order for these cartons you can get a useful cabinet at half cost (5/-). This holds a supply of each of the five sizes in a neat, orderly arrangement.

of Manchester

MACDONALD & SON LTD ASHTON-UNDER-LYNE · LANCS





Importers & Exporters & Millers 7 LEATHER MARKET · LONDON S.E.I





PREPARED WHEAT GERM A RICH NATURAL SOURCE OF VITAMINS B and E TWO SIZES 1/9 or 3/-

Trade 16/- doz. or 27/- doz. FREE NON-RETURNABLE CARTONS

From Principal Wholesalers or from the Manufacturers

CARR'S CEREAL PRODUCTS LTD. CARLISLE

**Hurry! Offer closes July 9th** 

## Elastoplast BONUS OFFER

72% QUANTITY + 5% DISPLAY DISCOUNT

ON DIRECT ORDERS FOR £17-10-0

These generous bonus terms are offered with every direct order of £17.10.0 (trade price value) or more, which includes at least £10 worth of Elastoplast first aid dressings—the full weight of Elastoplast advertising is again concentrated in support of these popular lines.

If you have not already received our detailed Bonus announcement letter or order form, write now! This big 7½% + 5% Bonus Offer closes July 9th, 1956.





SMITH & NEPHEW LTD

WELWYN GARDEN CITY · HERTS

FREE!

This permanent and attractive counter dispenser

### <u>NEW</u> approach in

**SKIN DISEASE** 

### Inflammation with Infection DEMANDS

'HYDROCORTONE' AND ANTIBIOTICS

'HYDRODERM' provides the anti-inflammatory steroid hydrocortisone, incorporated in an emollient base with the antibiotics neomycin and bacitracin. Specific activity is provided against both inflammation and infection. Use of these two broad-spectrum antibiotics assures protection from a wide variety of organisms commonly found in skin lesions. Neither neomycin nor bacitracin is likely to cause a local reaction, and their use does not contra-indicate the concurrent use of other antibiotics systemically.

Topical Ointment of 'HYDRODERM' is supplied in tubes of 5 G. and 15 G., list prices 12/6d. and 33/-, exempt P.T. Available on prescription only.

#### Indications

Marcations				
Atopic dermatoses	Contact dermatoses			
Allergic eczema Infantile eczema Eczematoid dermatitis	Allergic reactions due to Drugs			
	Cosmetics Chemicals			
Food eczema	Soaps			
Pruritus with	Plants			
lichenification	Clothing			

Non-specific anogenital pruritus

The <u>NEW</u> formulation

### 'HYDRODERM'

Trade Mark

#### TOPICAL OINTMENT

(Hydrocortisone - Neomycin Sulphate - Zinc Bacitracin)

Informative literature available on request.

MERCK SHARP & DOHME LIMITED, HODDESDON, HERTS.

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Supplement

28 ESSEX STREET, STRAND, LONDON, W.C.2

#### ORRIDGE & COMPANY

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Irish Representative: Mr. J. A. Bassett, Ph.C., 57 Great Victoria Street, Belfast, Northern Ireland. Tel: Belfast 27078 

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17/6 for 36 words (min.) then 4d. per word. Box 2/-

WELHAM GREEN, nr. HATFIELD. Excellent opening for chemist in new shops, with flats over, being erected in rapidly expanding neighbourhood. For particulars apply to C. F. Day Ltd., 705 High Road, North Finchley, N.12. Telephone: Hillside 3611/2. C 3777

#### **BUSINESSES FOR DISPOSAL** 17/6 for 36 words (min.) then 4d. per word Box 2/-

DISPENSING CHEMISTS. Photographic supplies, fancy goods and tobacconist's business. Busy North Wales resort, Lease 23 years unexpired, Turnover £11,000 p.a., Further particulars from the Auctioneers, Robinson & Garlick, F.V.I., Llandudno, Tel.: 6611; and Degamwy, Tel.: 83567. C 3812 N.W. LANCS. Seaside village (retirement). Attractive, well-fitted pharmacy overlooking Morecambe Bay, Turnover £3,000, could be increased. Easy hours, no rota or Sunday duty. Very good living accommodation with separate entrance, Garden, Further particulars to genuine buyers, Box C 3786.

#### **APPOINTMENTS**

18/- per half inch (min.) and pro rata.
Box 2/-

#### BARNET GENERAL HOSPITAL, WELLHOUSE LANE, BARNET, HERTS

BARNET, HERTS
Senior Pharmacist
Applications are invited for the post of Senior
Pharmacist (Category V). The Pharmacy Department is new and well equipped. Salary
£575-£775 plus London Weighting, Applications
stating age, experience, names two referees,
to Hospital Secretary. C 266

#### CITY GENERAL HOSPITAL,

CITY GENERAL HUSTIGAL,
STOKE-ON-TRENT
Assistant-in-Dispensing
(female) required. Apothecaries' Hall Certificate, Salary in accordance with Whitley Scales, Applications to the Hospital Secretary as soon as possible.

C 5331

#### GENERAL HOSPITAL, SOUTHEND-ON-SEA Student

Student Student Student Student Student 1, 1956. Salary for pre-graduate student £145 per annum during first year, £170 per annum during second year, with an additional £20 per annum for students who have passed or obtained complete exemption from the Intermediate Examination of the Pharmaceutical Society, Salary for post-graduate students £350. The hospital is situated in pleasant surroundings and the post offers excellent opportunities for experience in all branches of pharmaceutical work including dispensing for in-patients, and for patients from a busy Consultative Out-patient Department, manufacturing, sterlising, dressings and instruments, Pre-graduate candidates must possess the General Certificate of Education at ordinary level as required by the Pharmaceutical Society, Applications, stating age, particulars of education, etc., with the names of two referees, should be sent to the undersigned as soon as possible.

J. C. FIELD.

#### **ENFIELD GROUP HOSPITAL**

MANAGEMENT COMMITTEE
Senior Pharmacist
required for duties within the Group, Salary
scale £575-£775 p.a.
Part-time Pharmacist
required for five sessions per week, for duties
within the Group, Salary 31s, per session of
four hours,

Apply to the Group Secretary, Chase Farm Hospital, The Ridgeway, Enfield, Middlesex, giving the names and addresses of two referees.

#### GENERAL HOSPITAL, NOTTINGHAM

Locum Pharmacist required for a period of four months, commencing as soon as possible. Salary sixtenguineas weekly. Apply giving full particulars to Group Secretary, General Hospital, Notting-

#### KENT AND CANTERBURY HOSPITAL, **CANTERBURY**

CANTERBURY
Senior Pharmacist
required for the Group Pharmaceutical Department. This post offers excellent experience in all branches of pharmacy. The department services the Canterbury Group, comprising eleven hospitals with a total of approximately 1,000 beds. Salary (Category IV hospitals) £575 x £30 (5)—£725 x £25 (2)—£775 pcr annum. Higher qualifications allowance payable as appropriate. Applications with full details and copies of three testimonials to be forwarded within ten days of the appearance of this advertisement to the Group Secretary, Central Office, Nunnery Fields Hospital, Canterbury, Kent,

#### KING EDWARD VII HOSPITAL, WINDSOR

(Category III Hospital)
Pharmacist
required at the above hospital, Apply with details of service and names of three referees to

LAMBETH HOSPITAL,
Locum Pharmacist
required at Lambeth Hospital, Brook Drive,
S.E.11, for indefinite period. Salary 15 gns, per
week or according to experience, Phone: Chief
Pharmacist, Rel. 3804. C 249

Pharmacist, Rel. 3804. C 249

LONDON COUNTY COUNCIL
NORWOOD TECHNICAL
COLLEGE
Grade B Assistants for Chemistry
Norwood Technical College, September 1956, two Grade B assistants for chemistry, Duties will include teaching to Grad.R.I.C, level (Parts 1 and 2), good facilities for research. Burnham F.E. salary scale £561 x £25—£1,012 (subject to review, commencing and maximum salary according to age, qualifications and experience). Temporary in first instance, Application forms from Principal at College, Knights Hill, S.E.27, returnable by July 14, 1956. (1588)

#### MID-HERTS GROUP HOSPITAL

MID-HERTS GROUP HUSTITAL MANAGEMENT COMMITTEE
Locum Tenens Pharmacist
required from beginning of August, Salary
£15 15s, per week.
Applications to Chief Pharmacist, St. Albans
City Hospital, Normandy Road, St. Albans.
Herts.

#### LAMBETH HOSPITAL, **BROOK DRIVE, S.E.11** (Acute General Hospital, 510 Beds)

Senior Pharmacist
Applications are invited for the post of Senior
Pharmacist in a department which is being enlarged with consequent increase in the number of staff. Salary (plus London Weighting) in accordance with Whitley Council scale, Applications, stating age, experience, qualifications and names of two referees to the Secretary.

#### MONMOUTHSHIRE COUNTY COUNCIL, HEALTH CENTRE, CHURCH STREET,

TREDEGAR, MON.
Assistant-in-Dispensing
Applications are invited for the post of an
Assistant-in-Dispensing at the above Health

Assistant and the Centre.

The salary will be in accordance with the Whitley Council's Scale, i.e., £160 per annum at the age of 16 years, rising from £355 per annum at 22 years of age or over, to a maximum of

£465 per annum.

The appointment will be subject to a medical examination, to the provisions of the National Health Service (Superannuation) Regulations

Health Service (Superannuation) Regulations and to the Regulations of the Council in force from time to time,
Application forms may be obtained from the undersigned to whom they should be returned not later than July 6, 1956.

VERNON LAWRENCE,

Clerk of the Council.

Clerk of the Council.

County Hall, Newport, Mon.

C 5336

#### NATIONAL HEALTH SERVICE JOINT PRICING COMMITTEE

JOINT PRICING COMMITTEE FOR ENGLAND

Applications are invited for the superannuable post of Superintendent at the Manchester Pricing Bureau. The commencing salary is £790 per annum rising by five annual increments of £32 and one increment of £20 to £970 per annum. Both pharmaceutical and administrative experience are desirable. Duties entail resolving the many problems arising in the pricing of National Health Service prescriptions and controlling the staff of the Pricing Bureau, Applications stating age, qualifications and experience together with the names of three referees should reach the undersigned not later than first post on July 12, 1956. W. HAIGH,
Clerk of the Committee,
Joint Pricing Committee for England,
38 Northumberland Street,
Newcastle-upon-Tyne, 1. C 534

#### PARK PREWETT GROUP HOSPITAL MANAGEMENT COMMITTEE,

CUMINITIEE,

BASINGSTOKE, HANTS
Locum Assistant-in-Dispensing
(Apothecaries' Hall Certificate) required from
July 18 for four weeks, Weekly remuneration
£9 2s, No accommodation available,
Please apply to the Group Secretary, Park
Prewett Hospital, Basingstoke, Hants. C 5344

#### QUEEN MARY'S HOSPITAL FOR THE EAST END,

STRATFORD, LONDON, E.15
Locum Pharmacist
required immediately. Apply to Hospital Sectetary, from whom further particulars may be obtained.

C 5337

#### HAYES — KENT

New Block of Shops & Flats TO LET

No Premium Low Rent **Opening for CHEMIST** 

HEALEY & BAKER,

29 St. George Street, Hanover Square, London, W.1 MAY 9292 (25 lines)

C 3801

#### **BERDOE & FISH**

Chemists' Transfer Agents and Valuers

41 ARGYLE SQUARE, KING'S CROSS, W.C.I (opposite St. Pancras and King's Cross Stations)

Wanted immediately good class businesses in London, Home Counties and South Coast. Private clients waiting with cash up to £10,000.

All Valuations and Stocktakings, carried out under personal supervision of principals.

Established 1870 Phone: TERminus 3574

#### Appointments—Continued OLDCHURCH HOSPITAL, ROMFORD Assistant-in-Dispensing

Assistant-in-Dispensing required immediately in the pharmacy which is a very well equipped and busy department offering most interesting work. Salary according to age, i.e., £160 p.a., at age 16 to £465 p.a., Nationally approved conditions of service. Candidate must possess Certificate of Society of Apothecaries of London, or equivalent, for which £20 p.a. additional to salary is payable. Apply in writing, to Group Secretary at the Hospital.

C 5351

#### ROCHDALE AND DISTRICT HOSPITAL MANAGEMENT COMMITTEE. BIRCH HILL HOSPITAL

AND ROCHDALE INFIRMARY
Senior Pharmacist
required to work in either of the above general hospitals under the direction of the Chief
Pharmacist, Salary in accordance with Whitley
Council Scale

Apply at once to Group Secretary, Central Offices, Birch Hill Hospital, Rochdale, C 5299

### ROYAL FREE HOSPITAL

ROYAL FREE HOSPITAL,
LIVERPOOL ROAD ANNEXE,
ISLINGTON
Locum Pharmacist
required at above hospital, 30 hours per week.
Salary 15 gns, per week. The hours could be
adjusted to suit married lady, Applications, together with names and addresses of two referees,
should be addressed to Group Chief Pharmacist,
Royal Free Hospital, Gray's Inn Road, W.C.1,
C 5318

### STAINES GROUP HOSPITAL MANAGEMENT COMMITTEE Pharmacist

Pharmacist required at Ashford Hospital, Ashford, Middlesex, on salary scale £500-£725 per annum, plus London Weighting. Post now vacant. Applications, stating age, qualifications and experience, with copies of up to three recent testimonials, to Medical Director of Hospital immediately. immediately.

#### STAINES GROUP HOSPITAL MANAGEMENT COMMITTEE Locum Pharmacist

required at Ashford Hospital, Ashford, Middle-sex. Salary 16 gns, per week. Applications, stating age, qualifications and experience with copies of up to three recent testimonials to Medical Director of Hospital immediately.

#### ST. ALFEGE'S HOSPITAL GREENWICH, S.E.10

(long or short-term) required, Salary 16-17 gns, weekly according to experience, Apply Chief Pharmacist at hospital (Tel.: Gre. 2655).

C 5338

#### ST. GEORGE'S HOSPITAL, HYDE PARK CORNER, LONDON, S.W.1

male, to take charge of galenical laboratory and do one evening dispensing duty a week. Salary in accordance with Whitley Council scale. Apply in writing to Chief Pharmacist.

C 5302

### ST. ALBANS CITY HOSPITAL, NORMANDY ROAD, ST. ALBANS, HERTS

ST. ALBANS, HERTS
(General—384 Beds)
Senior Pharmacist (Category III)
Applications are invited immediately for the above post at this hospital within easy reach of Central London, Pharmacist also required. This is a newly created post to meet the needs of a busy and expanding department, and would be suitable for a newly qualified person. Whitley Council salary and conditions, Applications stating age and experience, to the Chief Pharmacist.

C 5355

#### ST. AUGUSTINE'S HOSPITAL, CHARTHAM.

CHARTHAM,
Nr. CANTERBURY
Assistant-in-Dispensing
(male or female) required. Previous experience in dispensing desirable. Salary scale £355 to £465 p.a. plus £20 p.a, for Certificate of Apothecaries or equivalent qualification, (Lower salary applies until 22 years of age.) Resident accommodation available for female assistant if required. Apply, giving full particulars, and naming two referees, to Secretary. C 5362

#### THE LONDON HOSPITAL,

THE LUNIUN FIGURE AND WHITECHAPEL, E.1
Locum Phurmaelst
required until September 30, Salary 15 or 16
guineas weekly according to experience, Apply
C 270

WILTSHIRE COUNTY
COUNCIL
Deputy Chief Pharmaeist
Applications invited from pharmacists for superannuable appointment of Deputy Chief Pharmaeist at SWINDON HEALTH CENTRE. Salary £625 to £850, Thirty-nine-hour week. Council house available for rent.
Applications, stating age, qualifications, experience and names and addresses of three referees to be sent to the undersigned as soon as possible.

sible.

P. A. SELBORNE STRINGER, Clerk of the County Council.

County Hall, Trowbridge.

C 5350

#### SITUATIONS VACANT

12/- for 36 words (min.) then 4d. per word. Box 2/-

#### RETAIL (HOME)

BATTERSEA. Pharmacist required to manage a good-class establishment in this area. Splendid opportunity for promotion. There is a good supporting staff and development is assured. Flat accommodation can be provided if desired. Apply with full details stating when available for interview to Box C 3806. BATTERSEA. Pharmacist required to manage

for interview to Box C 3800.

DONCASTER CO-OPERATIVE CHEMISTS, LTD., require the services of pharmacist (male or female) as branch manager, 44-hour week; minimum annual salary £840, bonus, increments for sales increases. Rota duties are additional payments. Applications with usual particulars to Superintendent Chemist, Doncaster CO-operative Chemists, Ltd., P.O. Box 20, Doncaster.

EARLESTOWN, LANCS, Unqualified assistant, male, required by retail chemists, Dispensing

male, required by retail chemists, Dispensing and counter experience essential, Salary £10 per week, Apply Box C 3804, HOLBORN, W.C.1. Young ladies required as sales assistants in busy modern pharmacy of City-West-End type, Permanent positions with Saturday half-day, Please telephone for an appointment or write to A, R. Cross, Ltd., 476 Hertford Road, Enfield, telephone Howard 1723 or 2916. KENT, Superintendent pharmacist manager required. Salary £900 per annum, Very congenial post. Apply Box C 3799, LIVERPOOL. Pharmacist required to manage pharmacy on housing estate, Permanent position, salary £1,040 per annum for 44-hour week, Full staff, which includes a dispensing assistant. Apply to Metcalfe & Co. (L'pool), Ltd., 596 Prescot Road, Old Swan, Liverpool, 13. CONDON, N.22. Pharmacist supervisor to take

LONDON, N.22. Pharmacist supervisor to take charge dispensary. Dispensing duties only, Large pleasant modernised pharmacy and redesigned dispensary, Good salary, Thursday early closing. J. S. Jenkin, Ltd., 352 High Road, Wood Green, Bow, 1729.

Green, Bow. 1/29.

MALE ASSISTANT for counter and dispensing; knowledge of photography essential; congenial, modern pharmacy. City hours; half-day Saturday. No rota or holiday duties; top salary; permanency. Apply in writing in first instance, stating experience and salary. All letters will be treated as confidential and will be answered. Hubble, 79 Kingsway, W.C.2.

C 5348

MANAGER OR MANAGERESS, locum or permanent required, would suit newly qualified pharmacist. Hours 9 to 6 p.m. Half-day Thursday; no Sunday rota duties, Very good supporting assistant. Apply by letter or phone for interview, Leslie Martyn, Ltd., 34 Dalston Lane, London, E.8.

London, E.8.

C 3793
MIDLAND AREA, Senior stocktaker required, Must have had several years' experience in pharmacy, Substantial wages, All expenses paid. Permanency. Apply Box C 259.

NORTH LONDON, Assistants required with dispensing experience for vacancies situated in N.W. and N. areas, Salary according to age and experience. Permanent positions. Three weeks' holiday a year, Hours 9 a.m.—6 p.m. Early closing day 1 p.m. Apply to A. R. Cross, Ltd., 476 Hertford Road, Enfield, or telephone Howard 1723 or 2916 for an appointment.

C 5283

PHARMACIST required by retail chemists in Liverpool area as branch manager, Excellent salary and commission offered for suitable applicant, Pension scheme in operation, Apply applicant, I Box C 3782,

TOTTENHAM, Branch manager pharmacist required for busy shop and good dispensing connection, Excellent opportunity for ambitious man to earn substantial salary and bonus, Good supporting staff and modern equipped dispensary, etc. Pernanency with superannuation benefits. Accommodation available if required, Apply with full details stating when available for interview to Box C 3805.

TWO PHARMACISTS required for the posi-TWO PHARMACISTS required for the position of branch manager, male or female. Easy hours, Saturday half-day, and a modern flat will be available August/September. Applications in writing stating age, experience and wage required, together with copies of recent testimonials to the General Manager, Heckmondwike & District Co-operative Society, Ltd., 3 Oak Street, Heckmondwike, P.O. Box 16. Endorse envelope "Chemist" in top left-hand corner.

#### REPRESENTATIVE REQUIRED

Energetic Representative with existing connection amongst Chemists in London and the Home Counties, required to give coverage for:-

"DE-NOL"

(for the treatment of Stomach Ulcers)

Write, giving full particulars to:—

SALES MANAGER, PEPTINOL (G.B.) LTD., 80 Elswick Road, **NEWCASTLE-UPON-TYNE, 4** 

C 5330

#### C. L. BENCARD, LIMITED

in revising their Representative Force invite applications from experienced men for Perthshire, Dunfermline, Kinross, Angus, Aberdeen and Morayshire, which have been regularly worked.

A car and full expenses are provided and there are bonus and pension schemes in operation.

Apply in confidence giving full details of experience, to the Sales Manager, C. L. Bencard, Ltd., Park Royal, London, N.W.10.

C 5287

#### Situations Vacant—Continued

VACANCY occurs for an experienced male assistant. Busy dispensing and general retail routine. No Sunday duty; holidays honoured this year. James Tomlinson, M.P.S., 63 Oxford

WALES, mainly south. Competent stocktaker required with personality. Apply Orridge & Co., 184 Strand, London, W.C.2. C 255

#### LOCUMS WANTED

LOCUM TENENTES PHARMACISTS are re LOCUM TENENTES PHARMACISTS are required for an extended tour of duties in the London and suburban districts. Permanency at conclusion of tour if desired. Hours 9 a.m. to 6 p.m. Paid holiday. Salary and expenses basis, Applications to Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10.

#### WHOLESALE

A COMPANY of international repute, the leader in its field, marketing nationally advertised specialities, requires a representative to call on retail and wholesale chemists in the area comprising East Lancashire. The position will be permanent and pensionable, Remuncration is by salary and commission and is above average, Full expenses with car provided, Applicants, who must be between the ages of 25/40 and prepared to reside in the area appointed, should forward full details of past experience, which will be treated in strictest confidence, to PSM, Box CD811, LPE, 55 St. Martin's Lane, W.C.2.

#### ALLIED LABORATORIES, LTD.

Medical representatives required to develop

Medical representatives required to develop existing connection in areas:—
(1) East London
(2) Essex
(3) Herts and Beds.
Pharmaceutical qualification not essential but sound technical background and local residence necessary. No age limit, Remuneration by salary, expenses and commission, the positions being permanent and pensionable, Give full details in confidence to Sales Manager, Allied Laboratories, Ltd., 140 Park Lane, W.1.

C 5352

ANALYST (male or female) for general analytical work, previous experience of pharmaceutical analysis desirable, Salary according to experience, good prospects. Five-day week. Apply to Chief Chemist, Potter & Clarke, Ltd., River Road, Barking.

AN OPPORTUNITY occurs for a pharmacist with hospital or retail experience to establish a progressive future for himself in medical representation, with a first-class ethical house. This vacancy is in the Glasgow area. Applicants should be between the ages of 28 and 35 years, with strong and pleasing personality, and should submit full details of their careers to date in own handwriting to the Sales Manager, Abbott Laboratories, Ltd., 3 Wadsworth Road, Perivale, Greenford, Middlesex. C 5327

Perivale, Greentord, Middlesex.

AYRTON, SAUNDERS & CO., LTD., require pharmacist for sterile products unit, interesting work under good conditions, 5-day week. Experience desirable but not essential. Full details of age, qualifications and experience to Technical Director, 34 Hanover Street, Liverpool, 1.

C 5315 Liverpool, 1.

ASSISTANT REQUIRED, unqualified, male or female, to take position of responsibility under supervision of pharmacist in wholesale chemist department. Possibility of furnished house being available, Hardy & Son, Ltd., Brown Street, Salisbury.

C. L. BENCARD, LTD., invite applications for representatives from experienced men for the County of Kent, which has been regularly worked. A car and full expenses are provided and there are bonus and pension schemes in operation. Apply in confidence giving full details of experience, to the Sales Manager, C. L. Bencard, Ltd., Park Royal, London, N.W.10. C 5325 C. L. BENCARD, LTD., invite applications for

A career in pharmaceutical journalism awaits a young pharmacist up-to-date on present developments and keen to keep abreast of new ones, Must be good at English, quick in the uptake, and interested in people and affairs, Apply to the Editor, The CHEMIST AND DRUGGIST, 28 Essex Street, Strand, London, W.C.2.

H. E. DANIEL, LTD., St. Bernard Works, London, S.E.19, suppliers of raw materials to the following trades, require a representative to call upon mineral water and confectionery manufacturers, perfumery and soap manufacturers manufacturing chemists and wholesale druggists, in London and Home Counties, Experience desirable, Salary, commission, superannuation and car provided, Apply in confidence, with full details to the Managing Director. C 261

#### EXPORT SALES EXECUTIVE

EXPORT SALES EXECUTIVE
Well-known firm of cosmetic manufacturers invites applications from men aged 30-35 for appointment as Export Sales Executive, The man appointed will be based in London for 18 months-2 years, then in the South of England, Experience in cosmetic trade and export trade essential. Salary around £1,000 p.a., dependent on qualifications, Good prospects of advancement. Write for application form to Box C 5359.

EXPORT SALES MANAGER with good con-EXPORT SALES MANAGER with good connections particularly in British Commonwealth and South America, required by pharmaceutical manufacturers in West London area, Duties will entail sales promotion of both proprietaries and ethicals. Supervision of sales and advertising, Excellent opportunity with unlimited scope for the "right man." Applications with full details of experience, education and salary required, etc., to Box C 5346.

LADY SUNDRIES BUYER REQUIRED for LADY SUNDRIES BUYER REQUIRED for wholesale chemists in South Coast town, Must have smart appearance, pleasing personality, and good education, and be able to sell sundries from a showroom. Good salary and prospects, Apply in own handwriting giving full particulars to Box C 5341.

MEDICAL REPRESENTATIVE lands required by London ethical medical house to call on physicians, preferably resident in or near Birmingham. Write in first instance stating age, experience if any, and salary expected to Box C 5356. MAY & BAKER, LTD., Dagenham, Essex, have a vacancy for a pharmacist in their development laboratory, to carry out investigation of problems of manufacture and formulation in pharmaceutical preparation. Candidates should have a B.Pharm, or Ph.C. qualification, Contributory pension scheme, writing, quoting reference No, 150, to the Personnel Officer. MAY & BAKER, LTD., Dagenham, Essex, have

MEDICAL DEPARTMENT EXECUTIVE. Prominent pharmaceutical house invite applications for the position of medical department executive. Duties include the training and supervision of medical propaganda staff, compiling and editing of medical literature, and the initiation of clinical trials, Medical qualifications an advantage but not essential if applicant has appropriate background, Applications which will be treated in the strictest confidence should give full details of qualifications, experience and indication of emoluments expected. Box C 5347, MEDICAL DEPARTMENT EXECUTIVE.

MEDICAL REPRESENTATIVES required by London manufacturing chemists to call on doctors, dentists, hospitals and chemists, Experience of medical detailing an advantage but not essential if applicant has a good pharmaceutical background. Applications invited from pharmacists, 25 to 40 years of age, stating experience and salary required. Box C 264.

MEDICAL REPRESENTATIVE with pharma-MEDICAL REPRESENTATIVE with pharmaceutical or medical background required by large firm of manufacturing chemists to interview doctors, hospitals and chemists in South and South-west Counties; residence in South-ampton or Bournemouth preferable, Car provided, Salary and expenses, Pension scheme. Apply giving age and full details of qualifications and experience, and stating salary required Box C 5335.

OPPORTUNITIES occur for pharmacists, aged 21-25, in the pharmaceutical division of a well-known firm of chemical manufacturers near London. The engagement is on the manufacturing and packaging of ethical products, with opportunity for experiment in production and control methods, Salary according to qualifications and experience, with prospects of advancement, Apply initially in writing to Box C 5334.

H. & T. KIRBY & CO., LTD., require the services of an experienced sugar coater, Applications should be made in writing to H. & T. Kirby & Co., Ltd., Newman House, Belton Road, Willesden Green, N.W.2.

#### SALES EXECUTIVE

SALES EXECUTIVE

ROUSSEL LABORATORIES wish to engage a field sales executive to assist the Sales Manager in the supervision of representatives. Qualities looked for are:—
(a) Successful selling experience with pharmaceutical products,
(b) Experience of, or potential for, training and controlling representatives in the field,
(c) Aptitude for sales correspondence and office routines, and
(d) Age not more than 35.

Considerable importance is attached to this post which will be remunerated accordingly.

ingly.

Applications, which will be treated in strict confidence, should give fullest details of background and career to date and be addressed to the Sales Manager, Roussel Laboratories, Ltd., 847 Harrow Road, London, N.W.10.

C 533 C 5333

#### DRUG PRODUCTS WANTED

Pharmaceutical manufacturer wishes to acquire a product that lends itself to ethical marketing. One that is in a class by itself and may not have any competition. In replying, indicate the availability of pharmacology and clinical evidence. Royalty basis, A. J. Parker Company, 817 North 42nd St., Philadelphia 4, Pennsylvania, U.S.A.

C 3802 -HOLBORN SUPPLIES, LTD., -55 LEATHER LANE, E.C.1 Phone: HOLborn 6689.

Tower Personal Scales; Evanol, Simplex, Inecto, Color Glo, Shadeine, Monil, L'oreal bleach, etc.; Flashmaster cameras; Remington, Sunbeam, Philishave Electric Shavers; Pifco Sunlamps, Infra-red, Massagers.

#### Situations Vacant—Continued

PROCESS WORKER with experience of production of hair and toilet preparations required

duction of hair and toilet preparations required by manufacturing perfumers in Central London, Must be enthusiastic and welcome responsibility. Permanent position, State age, experience and salary required to Box C 3794. SALES MANAGER. The position of Sales Manager is vacant due to promotion and applications are invited, Applicants should have at least four years' successful experience in sales management with an ethical pharmaceutical company. Age 35-45, Applications in writing only giving details of personal history and business experience together with recent photographs, to: Director, Lederle Laboratories Division, Cyanamid Products, Ltd., Bush House, London, W.C.2.

TABLET COATER experienced in plain and coloured work required by London manufacturing house, Write giving full particulars first instance, Box C 5363.

#### WHOLESALE (OVERSEAS)

PRODUCTION MANAGER required for mod-ern factory in Pakistan, Experience in manu-facturing ampoules and tablets essential. Euro-pean accommodation available, Write in the first instance to Box C 5309,

AGENTS WANTED

17/6 for 36 words (min.) then 4d. per word
Box 2/-

AGENTS throughout the United Kingdom required by company manufacturing a unique Dog-Candy product and accessory. The company's products are well established in the Pet-Pood trade, but offer considerable scope to energetic agents calling on chemists. Write Box C 3757, stating territory covered, number of retail contacts, and time taken to cover area, Exclusive agencies will be considered.

AN EXPERIENCED AGENT covering (a) Midlands; (b) Yorkshire, is offered attractive terms by a toilet paper manufacturer. Applicants should have long-standing connections with wholesale chemists, grocers, co-operative societies, Every backing given from head office and the territory would be guaranteed. Box C 3808.

MANUFACTURER of a new and unique conraceptive appliance seeks agents to sell the product on a commission basis, Connection with chemist trade essential, but not carrying competing line, Applications to Box C 3810.

#### SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word. Box 1/-

#### WHOLESALE

AREA MANAGER (37) with ethical company seeks similar position, or better, in London or South. Excellent record with medical and commercial background, Box C 3813,

MARKETING EXECUTIVE in pharmaceutical field available shortly, 10 years' experience both in the field and in administrative capacity with important pharmaceutical houses, Good knowledge of export, All enquiries treated in strictest confidence, Box C 5349,

#### **AGENCIES WANTED**

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NATIONALLY KNOWN manufacturer with own salesmen and 90-year connection pharma-cists trade can take additional nationally or locally advertised lines, Lancashire or Cheshire only, Box C 5361.

SCOTTISH AGENCY WANTED, We offer first-class representation by a qualified and several unqualified but experienced pharmacists; storage space (near Glasgow) 10,000 ct., ft., more readily available; light transport, Box C 3798.

#### **BUSINESS OPPORTUNITIES** 17/6 for 36 words (min.) then 4d. per word. Box 2/-

BE WISE! Sell the C.F. line Paton's Dental Ointment, the original for mouth ulcers, sore gums, cold sores, for use with new or old dentures, gives mouth cemfort, only 2/3 per tube retail. Order a display counter outer (1 doz.), (Trade 15/- per doz., plus P.Tax at 4/6.) Bonus offer on 2 doz., at 13 (profit over 9½d, per tube). Principle, profit, prestige, and C.F. F. C. Paton, Ltd., Southport, England. C 3730

MANUFACTURING CHEMISTS invite in-quiries for the manufacture, packing, etc., of private formulæ preparations, liquids, powders, tablets. Dispatch facilities available with own printing department, Frank Macowal & Yan-atas, Ltd., Wilshaw Street, London, S.E.14. Tel.: Tideway 3846-8.

REPRESENTATION to doctors and hospitals required by manufacturer of an ethical product, Box C 3791.

SOLE IMPORTERS of single ethical pharmaceutical preparation with present sales of about £500 per annum without advertising or representation, seek amalgamation or association with ethical house with adequate medical detailing force, Box C 3800.

#### WANTED

17/6 for 36 words (min.) then 4d. per word. Box 2/-

CAPS, cartons, packaging materials and fair price for spot cash. We are buyers of merchandise of EVERY DESCRIPTION. Clearance Stocks, Discontinued lines, Surplus and Redundant Stocks, Should you have any particulars, Reliance Trading Co., 13 New College Parade, Finchley Road, N.W.3, C 153 MEDICAL BOTTLES. tablet bottles closures MEDICAL ROTTLES, tablet bottles, closures and all types of packaging materials purchased, no quantity too large, Samples and full details to Noel Davold & Co., 9 Laurence Pountney Lane, Cannon Street, E.C.4, Mansion House 3951–2.

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large, Our representative will call anywhere, Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020 and 7692.

#### MISCELLANEOUS SALES

17/6 for 36 words (min.) then 4d. per word. Box 2/-

100 BAYS of brand new adjustable steel shelving, 72 in, high by 34 in, wide by 12 in. deep, stove-enamelled bronze green, Sent knocked down—6 shelf bay—£3 15s, Sample delivered free. N. C. Brown, Ltd., Eagle Steelworks, Heywood, Lancs. C 5115 DISPLAY THAT SELLS, Pegboard panels, screens and displays, Pegboard fittings for all articles, Prices and lists from Wesper, Ltd., 23 Station Street, Sittingbourne, Kent. C 3785 HONEY for immediate disposal. Australian HONEY for immediate disposal, light and medium amber, 59 lb, and 60 lb, Original drums, J. E. Ellis, Ltd., 20 Regent C 3796 MODERN CHEMIST SHOPFITTINGS, drug ranges, wall cases and frameless sliding doors, display counters and showcases, all types of window fittings and display stands, D. Matthews & Son, Ltd., Complete Chemist Shop Fitters & Shop Front Builders, 14-16 Manchester Street, Liverpool,

THE SMALLEST ROOM needs Jumbo crepe toilet rolls, 33/- gross. Carnos fine balance sulphate toilet roll, 66/- gross. Free delivered. Sea journey extra. Send 1/- for sample rolls. Stock lists free on request, L. Frankenberg, Ltd., Manufacturers' Wholesale Distributors, 37 Houndsditch, London, E.C.3,

#### SALES BY AUCTION

18/- per half inch (min.) and pro rata.

Box 2/-

B. NORMAN & SON, 2-5 Little Britain (close to G.P.O.), London, E.C.1, will sell by Auction on Wednesday next, July 4, at 1,30 p.m., excellent practically new light oak Chemists' Fixtures and Showcases, Drug Runs, Plateglass Counters, Cash Tills, Office Furniture, Safe, Typewriters, etc. View Day Prior, Catalogues of the Auctioneers, Tel.: Mon. 8501, 65343.

#### HOLIDAY ACCOMMODATION 17/6 for 36 words (min.) then 4d. per word. Box 2/-

NEWLY FURNISHED and equipped modern bungalow on Herts, Essex and Middlesex bor-ders within easy reach of London, Epping Forest and numerous points of interest, Large garden. Apply Box C 3797.

#### **STOCKTAKING**

17/6 for 36 words (min.) then 4d. per word. Box 2/-

QUIET AND ACCURATE workmanship.
Over 30 years' practical experience, Detailed inventories supplied to suit your individual requirements. Your own stock sheets priced. Terms moderate, C, W, Playfoot, 8 Aylward Road, London, S.W.20. Phone: Liberty 4104.

C 190

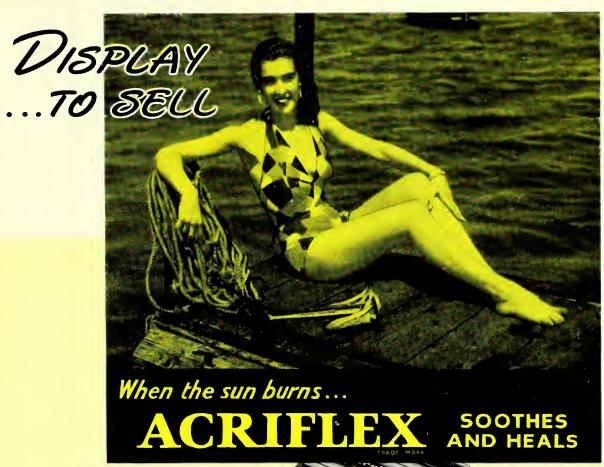
#### **MISCELLANEOUS**

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THE DISPENSERS GUILD OF GREAT BRITAIN, 41 Connaught Square, London, W.2 (formerly The Guild of Dispensers), which aims at statutory recognition, invites new enquiries and reminds its members that annual subscriptions (10s, 6d.) are now due, Secretary, D. G. E. Bristowe, Rookery Road, Staines, Middlesex.

#### -IMPORTANT-

Box Office numbers are intended exclusively for specific answers to particular advertisements. Price Lists, Trade Circulars, Samples and Printed Matter cannot be forwarded.



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FOR SEVERE SUNBURN

All orders for SIX or more outers of ONE DOZEN tubes of Acriflex will be charged at the rate of eleven tubes per outer, thus giving you one tube free in every dozen. Orders may be made up of any number of outers of either 1/6d or 2/6d size. Carriage will be paid on orders of £5 or over.

THE PERIOD OF THIS OFFER WILL BE LIMITED.

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### THE ETHICAL MEDICAL PREPARATION FOR THE TREATMENT OF ASTHMA



Prescribed and recommended by the Medical Profession in Hospitals, Private Practice and Government Departments in all parts of the world to which it has been introduced.



Tax free Dispensing Pack available.

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